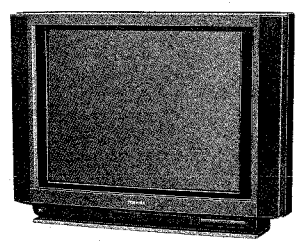
SERVICE DATA
FILE NO. 050-139
9-SYSTEM

TOSHIBA

COLOUR TELEVISION

285S8F



SPECIFICATIONS

Input Power Rating :	136 watts, AC 220 volts, 50 Hz
Aerial Input Impedance :	75 ohm unbalanced type for VHF and UHF
Receiving Channels :	CCIR L-SECAM Standard : VHF ..... channels FB to FC, 1 to 6, B to Q (70 ~ 86) UHF ..... channels 21 to 69 CCIR B/G-PAL Standard, CCIR B/G-SECAM Standard : VHF ..... channels E2 to E12 and S3 to S20 UHF ..... channels 21 to 69 CCIR I-PAL Standard : UHF ..... channels 21 to 69 CCIR D/K-PAL, D/K-SECAM Standard : VHF ..... channels 1 to 12 UHF ..... channels 21 to 69 PAL, SECAM 50Hz/60Hz (Video Disk playback) 4.43NTSC (VCR playback)
Intermediate Frequencies :	Picture I-F carrier frequency L System ..... 32.7 MHz B/G, D/K System (V_H, U) ..... 32.7 MHz B/G, D/K System (V_L) ..... 37.4 MHz I system (U) ..... 32.7MHz Sound I-F carrier frequency L System ..... 39.2 MHz B/G System (V_H, U) ..... 38.2 MHz B/G System (V_L) ..... 31.9 MHz D/K (V_L) ..... 30.9MHz I (U) ..... 38.7MHz D/K (V_H, U) 39.2MHz
Picture Tube :	28 inches, A68EAK51X01, 660 mm (measured on diagonal of viewable picture area), 110°deflection
Sound Output :	10.0 watts (at 10% harmonic distortion) X 2, Max. 12.0 watts X 2
Speakers :	120 mm x 80 mm oval, 4 pcs
Aux. Terminals :	Headphone Jack, 21 pin socket, S-VIDEO/AUDIO socket, External speaker terminal
Dimensions :	Height ..... 588 mm Width ..... 788 mm Depth ..... 474 mm
Weight (Net) :	36.6 kg

Specifications are subject to change without notice.

Printed in Japan Oct. 1988

SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND THE "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

X-RAY RADIATION PRECAUTION

1. The E.H.T. must be checked every time the receiver is serviced to ensure that the C.R.T. does not emit X-ray radiation as result of excessive E.H.T. voltage. The nominal E.H.T. for this receiver is 26.0 kV at zero beam current (minimum brightness) operating at 220V a.c. The maximum E.H.T. voltage permissible in any operating circumstances must not exceed 26.0 kV. When checking the E.H.T., use the 'High Voltage Check' procedure in this manual using an accurate E.H.T. voltmeter.
2. The only source of X-RAY radiation in this receiver is the C.R.T. To prevent X-ray radiation, the replacement C.R.T. must be identical to the original fitted as specified in the Parts List.
3. Some components used in this receiver have safety related characteristics preventing the C.R.T. from emitting X-ray radiation.
   For continued safety, replacement component should only be made after referring the Product Safety Notice below.

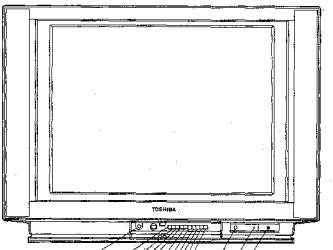
SAFETY PRECAUTION

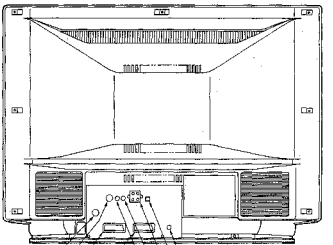
1. This receiver has a nominal working E.H.T. voltage of 24.0 kV. Extreme caution should be exercised when working on the receiver with the back removed.
   Do not attempt to service this receiver if you are not conversant with the precautions and procedures for working on high voltage equipment.
   When handling or working on the C.R.T., always discharge the anode to the receiver chassis before removing the anode cap.
   The C.R.T., if broken, will violently expel glass fragments. Use shatter proof goggles and take extreme care while handling.
   Do not hold the C.R.T. by the neck as this is a very dangerous practice.
2. It is essential that to maintain the safety of the customer all cable forms be replaced exactly as supplied from factory.
3. A small part of the chassis used in this receiver is, when operating, at approximately half mains potential at all times. It is therefore essential in the interest of safety that when serving or connecting any test equipment the receiver should be supplied via a suitable isolating transformer of adequate rating.
4. Replace blown fuses within the receiver with the fuse specified in the parts list.
5. When replacing wires or components to terminals or tags, wind the leads around the terminal before soldering. When replacing safety components identified by the international hazard symbols on the circuit diagram and parts list, it must be a Toshiba approved type and must be mounted as the original.
6. Keep wires away from high temperature components.

PRODUCT SAFETY NOTICE

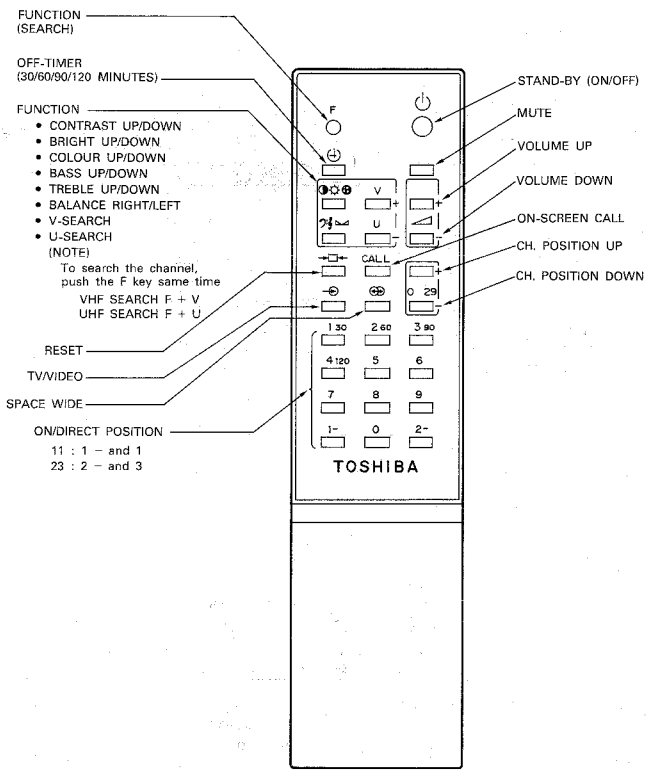
Many electrical and mechanical components in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the X-ray radiation protection afforded by them cannot necessarily be obtained by using replacements rated at higher voltages or wattage, etc. Components which have these special safety characteristics in this manual and its supplements are identified by the international hazard symbols on the schematic diagram and parts list. Before replacing any of these components read the parts list in this manual carefully. Substitute replacement components which do not have the same safety characteristics as specified in the parts list may create X-ray radiation.

FRONT CONTROLS AND REAR VIEWS





REMOTE HAND HELD UNIT



WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION" , "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

INSTALLATION AND SERVICE ADJUSTMENTS

GENERAL INFORMATIONS

All adjustments are thoroughly checked and corrected when the receiver leaves the factory. Therefore the receiver should operate normally and produce proper colour and B/W pictures upon installation. However, several minor adjustments may be required depending on the particular location in which the receiver is operated.
This receiver is shipped completely in cardboard carton. Carefully draw out the receiver from the carton and remove all packing materials.
Plug the power cord into a convenient 220 volts 50 Hz AC two pin power outlet. Turn the receiver ON.
Check and adjust all the customer controls such as BRIGHTNESS, CONTRAST and COLOUR Controls to obtain natural colour or B/W picture.

AUTOMATIC DEGAUSSING

A degaussing coil is mounted around the picture tube so that external degaussing after moving the receiver is normally unnecessary, providing the receiver is properly degaussed upon installation. The degaussing coil operates for about 1 second after the power to the receiver is switched ON. If the set is moved or faced in a different direction, the power switch must be switched off at least 10 minutes in order that the automatic degaussing circuit operates properly.
Should the chassis or parts of the cabinet become magnetized to cause poor colour purity, use an external degaussing coil. Slowly move the degaussing coil around the faceplate of the picture tube, the sides and front of the receiver and slowly withdraw the coil to a distance of about 2 m before disconnecting it from AC source. If colour shading still persists, perform the COLOUR PURITY ADJUSTMENT and CONVERGENCE ADJUSTMENTS procedures.

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on this chassis.

1. Connect an accurate high voltage meter to the second anode of the picture tube.
2. Turn on the receiver. Set the BRIGHTNESS and CONTRAST Controls to minimum (zero beam current).
3. High voltage will be measured below 27.5 kV.
4. Rotate the BRIGHTNESS Control to both extremes to be sure the high voltage does not exceed the limit of 27.5 kV under any conditions.

HEIGHT ADJUSTMENT

HEIGHT Control (R351) on MAIN Board changes the size of the picture or pattern, having an equal effect on the top and bottom. Make final adjustment to overscan the mask 2 cm at top and bottom.

HORIZONTAL CENTER ADJUSTMENT

1. Receive the WG PHILIPS pattern.
2. Set the contrast and colour to minimum, and the bringhtness to maximum.
3. Adjust H. CENTER USER Control (R452) to the click (center) position.
4. Adjust H. CENTER SUB Control (R451) so the pattern center can be located at the screen center.

FOCUS ADJUSTMENT

Adjust FOCUS Control on FLYBACK TRANS.(T461) for well defined scanning lines in the centre area on the screen.

DELAYED R-F AGC ADJUSTMENT

1. Tune the set in the strongest station in your area.
2. Turn AGC DELAY Control (R153) on IF Board to fully counterclockwise position.
3. Adjust AGC DELAY Control clockwise until noise (snow) disappears on the screen.

AFC (Automatic Frequency Control) FIELD ALIGNMENT

1. Tune the set to an active channel and adjust fine tuning for best picture with MFT UP, DOWN buttons.
2. To activate AFC, temporarily tune in the next active channel with SEARCH button and return to the previous channel.
3. Adjust L152 and CN52 for the best tuned picture.
4. Detune to higher or lower side with MFT button. Then temporarily change to the next active channel with SEARCH button, and return to the previous channel to check for the best tuned picture.

PICTURE WIDTH AND DISTORTION ADJUSTMENT (Width, Pincushion Distortion, Trapezoid Distortion)

1. Perform this adjustment after +B and H. CENTER adjustment are completed.
2. Receive the WG PHILIPS pattern.
3. Set the contrast and colour to minimum, and the brightness to maximum.
4. Adjust H. WIDTH Control (R358) for the horizontal width so that the white flags on left and right of the pattern are just hidden.
5. Adjust PINCUSHION CORRECTION Control (R357) to correct the vertical line on left and right straight.
6. Adjust TRAPEZOID CORRECTION Control (R356) to correct the trapezoid distortion.
7. Readjust H. WIDTH control for the precision.

BELL COIL (LM01) ADJUSTMENT

1. Receive SECAM colour bar signal.
2. Connect the synchroscope to the terminal Pin 2 of LM01.
3. Adjust LM01 for the flat level of amplitude in each colour bar waveform on the scope. (See figure 1.)

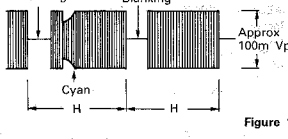


Figure 1.

IDENT COIL (LM04) ADJUSTMENT

1. Receive SECAM colour bar signal.
2. Connect the DC voltmeter (Digital Voltmeter) to the pin 23 of IC501.
3. Adjust LM04 for the maximum indication (approx. DC10V) on the meter.

B-Y, R-Y DEMOD COIL (LM02, LM03) ADJUSTMENT

1. Receive SECAM colour bar signal.
2. Set the COLOUR, BRIGHTNESS and CONTRAST Controls free.
3. Connect the synchroscope to the pin 60 of IC501.
4. Adjust LM02 so that the white level in picture part reaches to the vertical retrace line. (See figure 2.)
5. Then change the connection of synchroscope from the pin 60 to the pin 62 of IC501.
6. Adjust LM03 so that the white level in picture part reaches to the vertical retrace line. (See figure 3.)

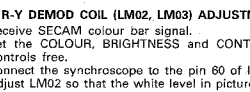


Figure 2.

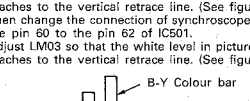


Figure 3.

PAL MATRIX ADJUSTMENT

1. Tune in the colour programme of the Philips pattern.
2. Set the COLOUR Control VR. to obtain the proper colour.
3. If the PAL MATRIX adjustment is incorrect, the Venetian Blind would appear in the colour bars area. This case needs the adjustment.
4. At the first, adjust DL PHASE ADJ. Coil (L551) to minimize the Venetian Blind.
5. Next adjust 1H-DL ADJ. VR (R551) to minimize the Blind.
6. If the Venetian Blind still remains, adjust 1H-DL PHASE ADJ. Coil (L551) to minimize the Blind again.
7. Repeat the item 5 and 6 procedures, adjust the R551 and L551 until the Blind does not appear.

CRT GREY SCALE ADJUSTMENT

1. Tune in an active channel.
2. Turn the SCREEN Control (on T461) fully counter clockwise.
3. By rotating the RED, GREEN and BLUE CUT OFF Controls (R557, R558, R559) counterclockwise to the minimum.
4. Set the GREEN and BLUE DRIVE Controls (R252, R253) to the mid position.
5. Set the SERVICE SW. (S202) in the H. line position.
6. Short temporarily terminal of RASTER CHIP on the CRT DRIVE Board.
7. Set the CONTRAST, COLOUR Controls to minimum and BRIGHTNESS Control to centre position.
8. Rotate the SCREEN Control gradually clockwise until the first line appears slightly on the screen. Set the SCREEN Control to this position.
9. Open the terminal of RASTER CHIP on the CRT DRIVE Board.
10. Adjust the CUT OFF Controls to obtain the slightly lighted horizontal lines in the same levels of three colours (RED, GREEN and BLUE).
    The lines may look like white if the CUT OFF Controls are adjusted properly.
11. Return the SERVICE SW. (S202) in the recieving position.
12. Set the BRIGHTNESS Control to the maximum and COLOUR Control to the minimum.
13. Adjust the BLUE and GREEN DRIVE Controls (R252/R253) to obtain proper white-balanced picture in high light areas.
14. Set the BRIGHTNESS and CONTRAST Controls to obtain dark grey raster. Then check the white balance in low brightness. If the white balance is not proper, retouch the CUT OFF Controls and DRIVE Controls to obtain a good white balance in both low and high light areas.

SUB-BRIGHTNESS ADJUSTMENT

1. Tune in a colour programme.
2. Set the CONTRAST Control to the minimum and the BRIGHTNESS Control to the centre.
3. Set the COLOUR Control to the minimum.
4. Set the SUB BRIGHT. Control (R255) to the centre and leave the receiver for five minutes in this state.
5. Watching the picture well, adjust the SUB-BRIGHT. Control in the position where the picture does not show evidence of blooming in high bright area and not appear too dark in low bright portion.
6. Check the proper picture variation by rotating the CONTRAST and BRIGHTNESS Controls to both extremes.
7. If the picture does not appear dark with the CONTRAST and BRIGHTNESS Controls turned to the minimum, or not appear bright with the controls turned to the maximum, adjust the SUB-BRIGHT.
   Control again for the acceptable picture.

PICTURE I-F SWEEP ALIGNMENT

GENERAL ..... Refer to figure 4 for test equipment connection.
PRELIMINARY STEPS ..... 1. Disconnect the solder link SL-1 and SL-2 (◀▶ see figure 4) on the foil side of the Main Board.
2. Supply +12 volts to the Main Board.
3. Short the resister to ground to reduce the voltage at pin 30 of IC101 to below 1 volt.
4. Turn AGC DELAY Control (R153) on the Main Board fully clockwise.
SWEEP/MARKER GENERATOR ..... Connect to point ⓓ as shown in figure 4 on the Main Board. Set to 30 ~ 40 MHz sweep with signal level of 75 ~ 85 dBμ.
OSCILLOSCOPE ..... Connect with direct probe to pin 31 IC101 on the Main Board through 100k ohm resistor.

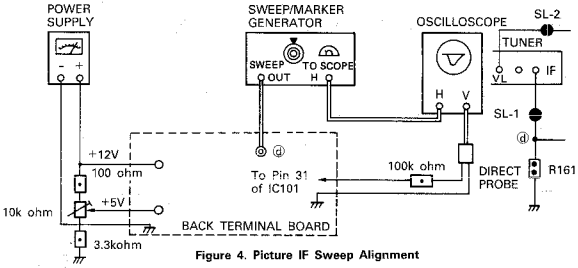


Figure 4. Picture IF Sweep Alignment

STEP	SWEEP/MERKER GENERATOR	ADJUST	REMERKS
1. Detector Coil	37.4 MHz Marker "ON"	L151	● Short the junction of RN28 and RN26 on the Main Board to ground. ● Supply +3 to +6 volts to pin 4 of IC101 to set the output level for 0.4 Vp-p on the scope. ● Adjust L151 so that the marker position (37.4 MHz) on the response can lower to minimum. (See figure 5.) ● Remove the short of the junction of RN28 and RN26. ● After completing CN51 adjustment, repeat this step again.
2. Detector Capacitor	32.7 MHz Marker "ON"	CN51	● Supply +3 to +6 volts to pin 4 of IC101 to set the detection output for 0.4 Vp-p on the scope. ● Adjust CN51 so that the marker position (32.7 MHz) on the response can lower to minimum. (See figure 5.) ● After completing L151 adjustment, repeat the step again.
After completing the above steps, disconnect the equipment and re-solder the links on the Main Board, and adjust the AGC Delay control (R153) following DELAYED RF AGC ADJUSTMENTS.			

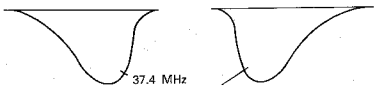


Figure 5. Magnified Response Curve

AFC ALIGNMENT

GENERAL ..... Refer to figure 6 for test equipment connection.
PRELIMINARY STEPS ..... 1. Disconnect the solder links SL-1, SL-2, SL-3 and SL-4 (◀▮▶ See figure 6) on the foil side of the Main Board.
2. Supply +12 volts to the Main Board. (See figure 6.)
3. Short the resister of RN16 to Ground to reduce the voltage at pin 30 of IC101 to below 1 volt.
4. Turn AGC DELAY Control (R153) on the Main Board fully clockwise.
DVM ..... Connect to the resistor R125 (ⓔ in figure 6) and ground.

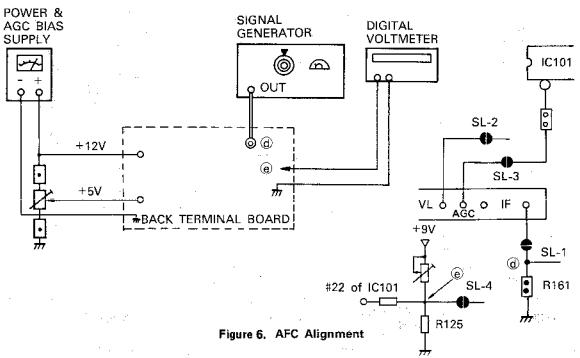


Figure 6. AFC Alignment

STEP	SIGNAL GENERATOR	ADJUST	REMARKS
1. AFC Balacne (R152)	NO SIGNAL	R152	● Short the pin 4 of IC101 to ground. ● Adjust R152 for 4.5 volts at the point ⓔ in figure 6.
2. AFC Coil (L152)	37.4 MHz CARRIER WAVE (Level: 75 to 85 dBμ)	L152	● Remove the short of pin 4 of IC101. ● Short the junction of RN28 and RN26 to ground. ● Connect IF carrier wave to the point ⓓ in figure 6. ● Adjust L152 for 4.3 volts on the meter at the point ⓔ. ● After completing CN52 adjustment, repeat this step again.
3. AFC Capacitor (CN52)	32.7 MHz CARRIER WAVE (Level: 75 to 85 dBμ)	CN52	● Remove the short of RN28 and RN26 to ground. ● Connect IF carrier wave to the point ⓓ in figure 6. ● Adjust CN52 for 4.3 volts on the meter at the point ⓔ. ● After completing L152 adjustment repeat this step again.

SECAM DET-OUT & SOUND IF ALIGNMENT

L SECAM DET-OUT (R151) ADJUSTMENT

1. Unsolder the solder link SL-1 to disconnect.
2. Supply +12 V to the Back Terminal Board.
3. Short Base of QN03 to ground to keep the voltage at pin 30 of IC101 in 4 volts.
4. Set AGC to Self AGC condition.
5. Connect synchroscope to pin 31 of IC101 through 10:1 probe.
6. Connect the 2-signal generator to IF input, and set up the generator as described below.
   IF frequency: 32.7 MHz
   Signal level : 75 to 85 dBμ
   Video modulation
   Positive modulation: 97%
   Video signal fH : 15.625 kHz
   Picture : Pattern with 100% white
7. Adjust the AC LEVEL Control (R151) for 1.6Vp-p on the scope.

SECAM SOUND DET (L651) ADJUSTMENT

1. Supply +12V to pin 7 of IC601 through 1k ohm resistor.
2. Connect the sweep generator to IF input.
   Sweep range : 30 to 40 MHz
   Level : 75 to 85 dBμ
   Marker : 39.2 MHz
3. Connect the oscilloscope to pin 20 of IC601 through 100 kohm resistor.
4. Apply AGC voltage (1 to 3V) to pin 19 of IC601, and fix the AGC voltage for 0.4 volts of output level on the scope.
5. Adjust SECAM SOUND DET Control (L651) so that the marker point (39.2 MHz) on the response can be maximum.

PAL SIF DET (L652) ADJUSTMENT

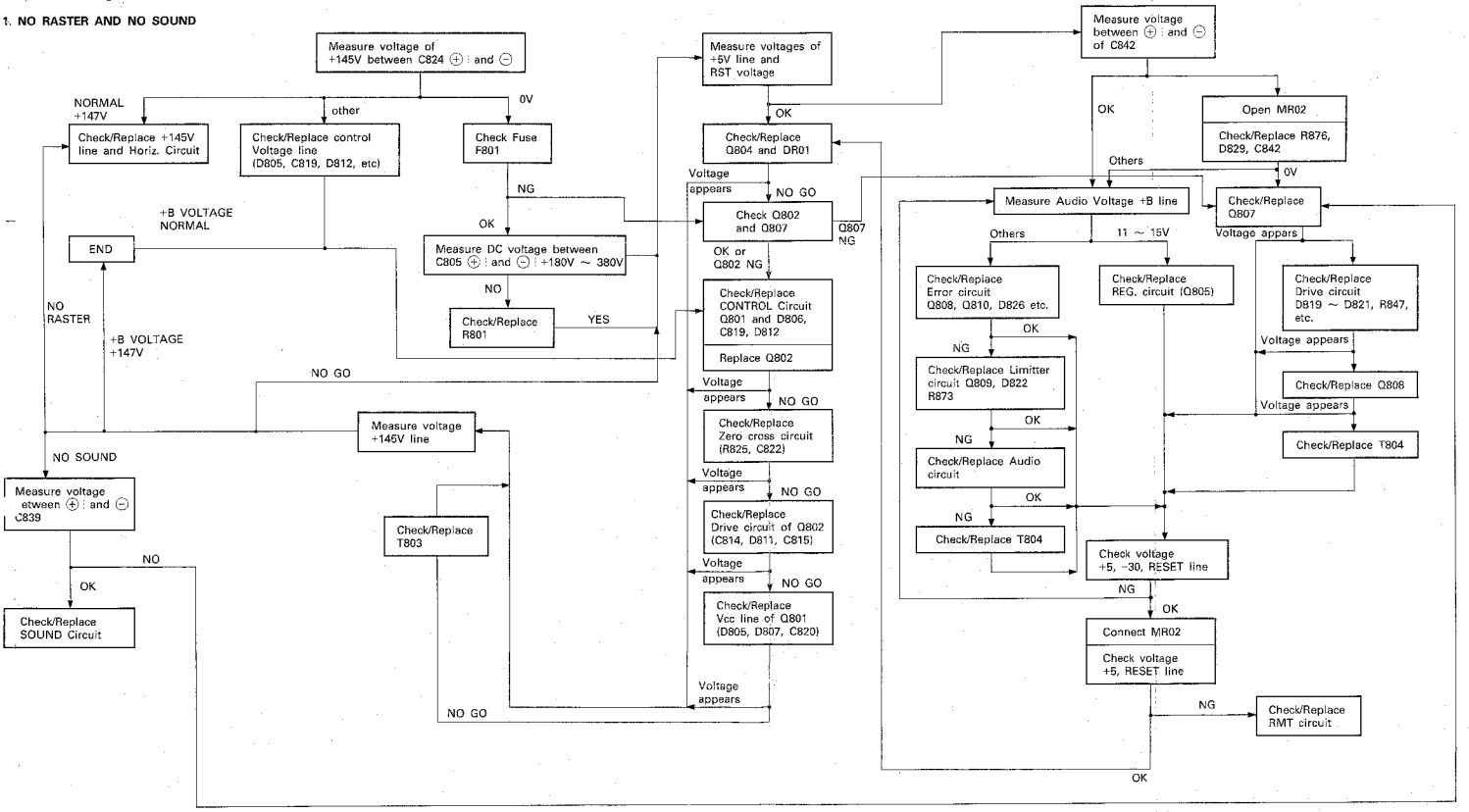
1. Short pin 7 of IC601 to ground.
2. Connect SIF generator to pin 13 of IC601 thorugh 0.01 uF capacitor.
3. Connect the oscilloscope to pin 20 of IC601.
4. Set up the SIF generator as described below.
   Sound carrier frequency : 5.5 MHz
   Modulation frequency : 1000 Hz
   Frequency deviation : ±15 kHz
   Signal level : 80 dBμ (50 ohm load)
5. Adjust L652 for the maximum response of 1000 Hz det-out on scope.

THIS PAGE IS
INTENTIONALLY LEFT
BLANK

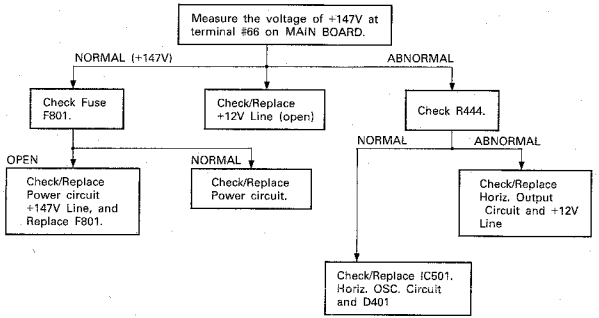
TROUBLESHOOTING CHARTS

The following charts are devoted to troubleshooting which, if followed carefully, will assist you in tracking down a fault to correct stage.
In order to utilize the charts (fault trees), firstly establish the complaint, i.e. – No Raster, No Sound.
Locate the chart applicable and then progress through the various alternatives until a final block indicates the offending components or stage.

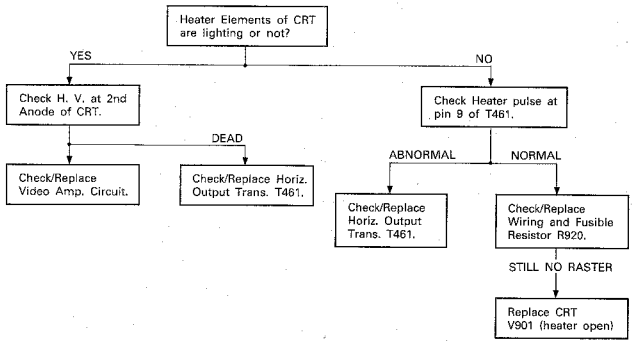
1. NO RASTER AND NO SOUND



2. NO RASTER (NOISE OR WEAK SOUND)

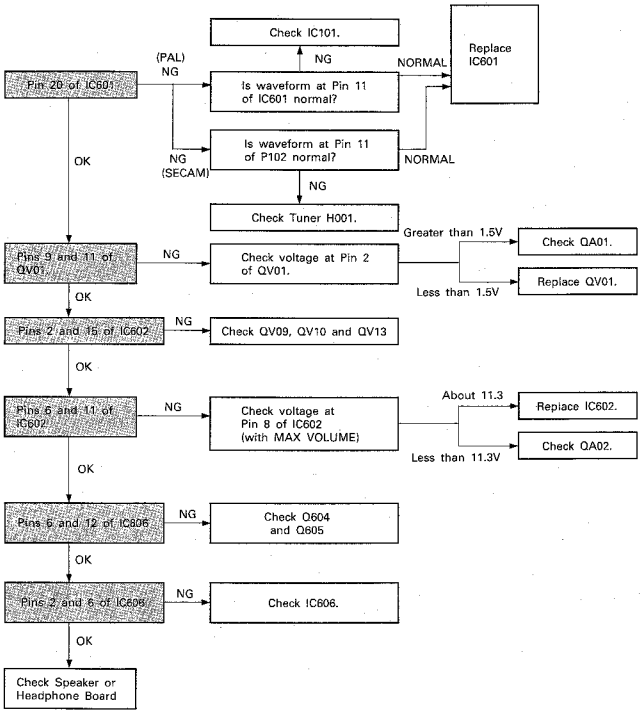


3. NO RASTER (SOUND OK)


Heater Elements of CRT are lighting or not?
YES
NO
Check H. V. at 2nd Anode of CRT.
Check Heater pulse at pin 9 of T461.
DEAD
ABNORMAL
NORMAL
Check/Replace Video Amp. Circuit.
Check/Replace Horiz. Output Trans. T461.
Check/Replace Horiz. Output Trans. T461.
Check/Replace Wiring and Fusible Resistor R920.
STILL NO RASTER
Replace CRT V901 (heater open)

4. NO SOUND

NOTE: Check the sound signal waveform for shaded area below.



5. NO PICTURE

Check video signal waveform for shaded area below.

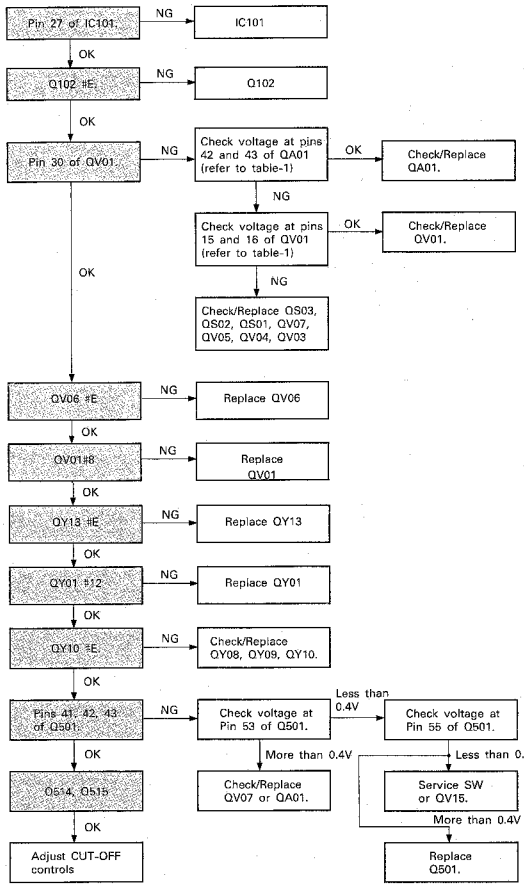


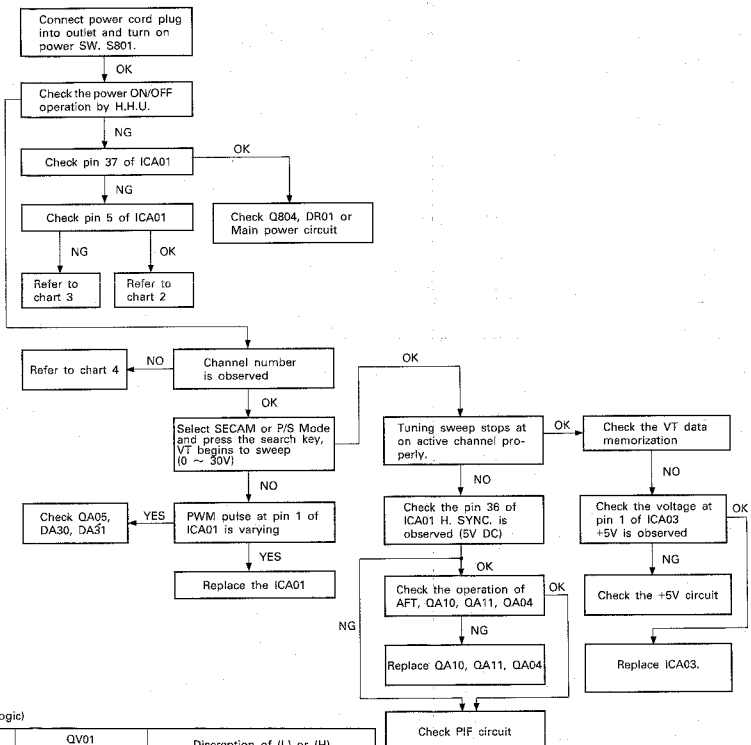
Table-1 (A/V Sw. logic)

MODE	QA01		QV01		Discreption of (L) or (H)
	Pin 42	Pin 43	Pin 15	Pin 16	
TV-1	H	H	H	H (L)	When Pin 8 of 21 Pin-1 is High Level
TV-2	L	H	H (L)	H (L)	When Pin 8 of 21 Pin-2 is High Level
VIDEO-1	H	L	H	L	
VIDEO-2	L	L	L	L (H)	When the S-Socket is inserted

L : less than 2.5V
H : More then 2.5V

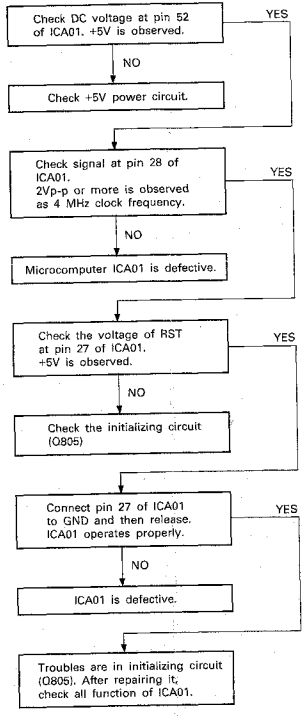
6. CHANNEL SELECTOR TROUBLE

[CHART 1]



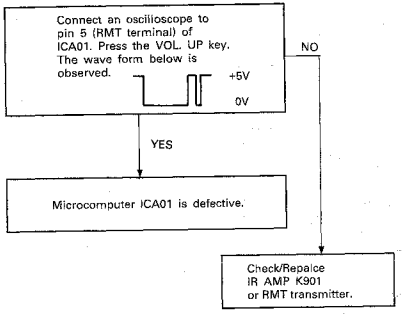
[CHART 2] Microcomputer (ICA01) Operation Check

Note: Before checking Microcomputer, check that control buttons and their connection work properly.

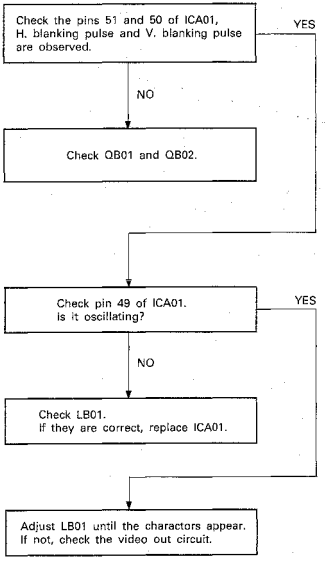

Check DC voltage at pin 52 of ICA01. +5V is observed.
YES
NO
Check +5V power circuit.
Check signal at pin 28 of ICA01. 2Vp-p or more is observed as 4 MHz clock frequency.
YES
NO
Microcomputer ICA01 is defective.
Check the voltage of RST at pin 27 of ICA01. +5V is observed.
YES
NO
Check the initializing circuit (Q805)
Connect pin 27 of ICA01 to GND and then release. ICA01 operates properly.
YES
NO
ICA01 is defective.
Troubles are in initializing circuit (Q805). After repairing it, check all function of ICA01.

[CHART 3] Remote Control Operation Check

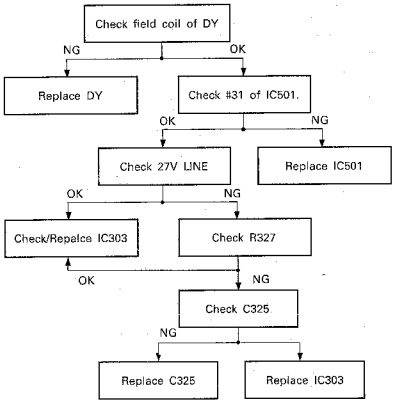
Note: Before checking RMT operation, check that key operation on TV set is proper.


Connect an oscilloscope to pin 5 (RMT terminal) of ICA01. Press the VOL. UP key. The wave form below is observed.
+5V
0V
NO
YES
Microcomputer ICA01 is defective.
Check/Repalce IR AMP K901 or RMT transmitter.

[CHART 4] On Screen Display Operation Check


Check the pins 51 and 50 of ICA01, H. blanking pulse and V. blanking pulse are observed.
YES
NO
Check QB01 and QB02.
Check pin 49 of ICA01. is it oscillating?
YES
NO
Check LB01. If they are correct, replace ICA01.
Adjust LB01 until the charactors appear. If not, check the video out circuit.

7. NO VERT. SCAN (ONE HORIZ. LINE RASTER)



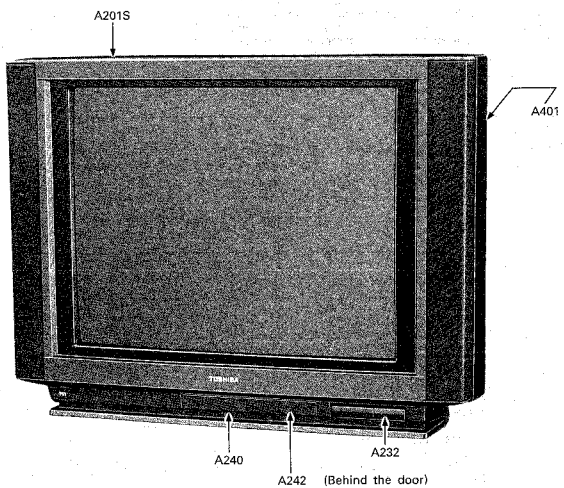
8. OUT OF VERT. SYNC. AND HORIZ. SYNC.

Check/Replace Sync Circuit pin 33 of IC501.

9. OUT OF HORIZ. SYNC.

Check/Replace Horiz. OSC Circuit and Horiz. AFC Circuit connected to Pins 36, 37 and 38 of IC501. Check/Replace IC501.

CABINET REPLACEMENT PARTS LIST



Location No.	Part No.	Description
A201S	23415069	Front Cover
A232	23443194	Knob, POWER
A237	70368125	Push Catch for Door
A240	23422488	Door
A242	23443195	Knob, Button
A401	23422373	Back Cover
A411	23998151	Label, Model Number
A701	23523170	Carton Box
A702	23994294	Packing, Bottom
A703	23994295	Packing, Top
A710	23995952	Label
Y101	23994481	Owner's Manual

CHASSIS REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION" , "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

CAUTION: The international hazard symbols in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 2. Do not degrade the safety of the receiver through improper servicing.

NOTICE: The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.

ABBREVIATIONS:

Capacitors ..... CD : Ceramic Disk PF : Plastic Film EL : Electrolytic
Resistors ..... CF : Carbon Film CC : Carbon Composition MF : Metal Film
OMF : Oxide Metal Film VR : Variable Resistor FR : Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Location No.	Part No.	Description
CAPACITORS		
C101	24212102	CD, 1000pF, ±10%
C102	24212471	CD, 470pF, ±10%
C104	24707474	EL, 0.4μF, ±20%, 35V
C105	24797105	EL, 1μF, ±20%, 35V
C106	24232103	CD, 0.01μF, +80%, −20%
C107	24636229	EL, 2.2μF, 50V
C108	24636229	EL, 2.2μF, 50V
C110	24232103	CD, 0.01μF, +80%, −20%
C111	24633100	EL, 10μF, 16V
C112	24560153	PF, 0.015μF, 63V
C113	24085988	EL, 1μF, ±20%, 50V, Non-Polar
C115	24636478	EL, 0.47μF, 50V
C116	24212102	CD, 1000pF, ±10%
C117	24636479	EL, 4.7μF, 50V
C118	24353120	CD, 12pF
C119	24212102	CD, 1000pF, ±10%
C120	24232103	CD, 0.01μF, +80%, −20%
C121	24636100	EL, 10μF, 50V
C122	24232103	CD, 0.01μF, +80%, −20%
C123	24436100	CD, 10pF, ±0.25pF
C124	24212102	CD, 1000pF, ±10%
C126	24436470	CD, 47pF
C127	24436221	CD, 220pF
C161	24212102	CD, 1000pF, ±10%
C162	24212102	CD, 1000pF, ±10%
C163	24212102	CD, 1000pF, ±10%
C164	24212102	CD, 1000pF, ±10%
C165	24232103	CD, 0.01μF, +80%, −20%
C166	24212102	CD, 1000pF, ±10%
C167	24212102	CD, 1000pF, ±10%
C201	24636100	EL, 10μF, 50V
C202	24795101	EL, 100μF, 25V
C203	24232103	CD, 0.01μF, +80%, −20%
C204	24797220	EL, 22μF, 50V
C205	24636478	EL, 0.47μF, 50V
C208	24212102	CD, 1000pF, ±10%
C209	24232103	CD, 0.01μF, +80%, −20%
C210	24636100	EL, 10μF, 50V
C211	24636100	EL, 10μF, 50V

Location No.	Part No.	Description
C240	24550474	PF, 0.47μF, 63V
C301	24636229	EL, 2.2μF, 50V
C302	24212152	CD, 1500pF, ±10%
C303	24617891	EL, 1μF, ±10%, 50V
C304	24212102	CD, 1000pF, ±10%
C307	24232103	CD, 0.01μF, +80%, −20%
C312	24212681	CD, 680pF, ±10%
C313	24796221	EL, 220μF, 35V
C314	24796222	EL, 2200μF, 35V
C315	24214221	CD, 220pF, ±10%, 500V
C316	24795222	EL, 2200μF, 25V
C317	24617897	EL, 2.2μF, ±10%, 50V
C321	24435510	CD, 51pF, 500V
C322	24550564	PF, 0.56μF, 63V
C327	24082027	PF, 0.22μF, ±10%, 100V
C328	24693272	PF, 2700pF, 100V
C360	24095945	PF, 0.47μF, 200V
C362	24212821	CD, 820pF, ±10%
C363	24095824	PF, 0.27μF, 200V
C364	24212471	CD, 470pF, ±10%
C365	24798470	EL, 47μF, 100V
C366	24550182	PF, 1800pF, 63V
C367	24550223	PF, 0.022μF, 63V
C368	24550104	PF, 0.1μF, 63V
C370	24593822	PF, 8200pF
C371	24828683	PF, 0.068μF, 200V
C372	24550474	PF, 0.47μF, 63V
C402	24353271	CD, 270pF
C403	24636339	EL, 3.3μF, 50V
C405	24593203	PF, 0.02μF
C406	24593203	PF, 0.02μF
C407	24593243	PF, 0.024μF
C408	24794101	EL, 100μF, 16V
C409	24232103	CD, 0.01μF, +80%, −20%
C412	24550182	PF, 1800pF, 63V
C413	24550182	PF, 1800pF, 63V
C414	24212471	CD, 470pF, ±10%
C416	24214271	CD, 270pF, ±10%, 500V
C417	24214332	CD, 3300pF, ±10%, 500V
C418	24790100	EL, 10μF, ±20%, 160V
C424	24795470	EL, 47μF, 25V

Location No.	Part No.	Description
C425	24633101	EL, 100μF, 16V
⚠ C440	24095888	PF, 0.01μF, ±3%, 1600V
C441	24214221	CD, 220pF, ±10%, 500V
C443	24214221	CD, 220pF, ±10%, 500V
C445	24828563	PF, 0.056μF, 200V
⚠ C446	24828243	PF, 0.024μF, 400V
C447	24644479	EL, 4.7μF, 250V
C448	24795102	EL, 1000μF, 25V
C449	24794471	EL, 470μF, 16V
C451	24640962	EL, 33μF, ±20%, 200V
⚠ C463	24212222	CD, 2200pF, ±10%
⚠ C464	24092035	CD, 1800pF, ±10%, 2kV
C465	24095942	PF, 0.62μF, 200V
C466	24640933	EL, 1μF, ±20%, 200V
C501	24797220	EL, 22μF, 50V
C505	24550273	PF, 0.027μF, 63V
C506	24550273	PF, 0.027μF, 63V
C507	24550103	PF, 0.01μF, 63V
C508	24085028	EL, 2.2μF, 25V, Non-Polar
C509	24353330	CD, 33pF
C510	24232103	CD, 0.01μF, +80%, −20%
C511	24232103	CD, 0.01μF, +80%, −20%
C512	24353200	CD, 20pF
C515	24636010	EL, 1μF, 50V
C516	24550104	PF, 0.1μF, 63V
C517	24550104	PF, 0.1μF, 63V
C518	24232103	CD, 0.01μF, +80%, −20%
C519	24232103	CD, 0.01μF, +80%, −20%
C520	24636478	EL, 0.47μF, 50V
C521	24550474	PF, 0.47μF, 63V
C522	24550474	PF, 0.47μF, 63V
C523	24550474	PF, 0.47μF, 63V
C524	24232103	CD, 0.01μF, +80%, −20%
C530	24796220	EL, 22μF, 35V
C531	24633100	EL, 10μF, 16V
C532	24436390	CD, 39pF
C533	24436270	CD, 27pF
C534	24436220	CD, 22pF
C535	24636100	EL, 10μF, 50V
C536	24636478	EL, 0.47μF, 50V
C537	24794101	EL, 100μF, 16V
C539	24232103	CD, 0.01μF, +80%, −20%
C601	24232103	CD, 0.01μF, +80%, −20%
C602	24232103	CD, 0.01μF, +80%, −20%
C603	24232103	CD, 0.01μF, +80%, −20%
C604	24232103	CD, 0.01μF, +80%, −20%
C605	24636470	EL, 47μF, 50V
C607	24598821	PF, 820pF
C609	24550104	PF, 0.1μF, 63V
C610	24636100	EL, 10μF, 50V
C611	24232103	CD, 0.01μF, +80%, −20%
C612	24232103	CD, 0.01μF, +80%, −20%
C615	24636479	EL, 4.7μF, 50V
C616	24636229	EL, 2.2μF, 50V
C617	24636479	EL, 4.7μF, 50V
C618	24636479	EL, 4.7μF, 50V
C619	24633470	EL, 47μF, 16V
C620	24530103	PF, 0.01μF, ±10%, 63V
C621	24550563	PF, 0.056μF, 63V
C622	24530103	PF, 0.01μF, ±10%, 63V
C623	24550563	PF, 0.056μF, 63V
C624	24636100	EL, 10μF, 50V
C625	24794470	EL, 47μF, 16V
C626	24550104	PF, 0.1μF, 63V

Location No.	Part No.	Description
C627	24636478	EL, 0.47μF, 50V
C628	24530102	PF, 1000pF, ±10%, 63V
C629	24530102	PF, 1000pF, ±10%, 63V
C631	24794101	EL, 100μF, 16V
C632	24630473	PF, 0.047μF, ±10%, 63V
C634	24794101	EL, 100μF, 16V
C635	24530473	PF, 0.047μF, ±10%, 63V
C636	24636010	EL, 1μF, 50V
C637	24636010	EL, 1μF, 50V
C638	24795102	EL, 1000μF, 25V
C639	24550104	PF, 0.1μF, 63V
C640	24550104	PF, 0.1μF, 63V
C641	24550104	PF, 0.1μF, 63V
C642	24636100	EL, 10μF, 50V
C643	24795470	EL, 47μF, 25V
C644	24550104	PF, 0.1μF, 63V
C645	24550104	PF, 0.1μF, 63V
C647	24634220	EL, 22μF, 25V
C649	24636478	EL, 0.47μF, 50V
C660	24795101	EL, 100μF, 25V
C661	24795101	EL, 100μF, 25V
C663	24436470	CD, 47pF
C664	24436470	CD, 47pF
C665	24232103	CD, 0.01μF, +80%, −20%
C666	24436680	CD, 68pF
C667	24212471	CD, 470pF, ±10%
C668	24212471	CD, 470pF, ±10%
C669	24232103	CD, 0.01μF, +80%, −20%
C674	24797470	EL, 47μF, 50V
C675	24232103	CD, 0.01μF, +80%, −20%
C676	24232103	CD, 0.01μF, +80%, −20%
C699	24636479	EL, 4.7μF, 50V
⚠ C801	24098999	PF, 0.1μF, ±20%, AC250V
⚠ C802	24098999	PF, 0.1μF, ±20%, AC250V
C803	24092281	CD, 4700pF, ±20%, AC250V
C804	24092281	CD, 4700pF, ±20%, AC250V
C805	24092281	CD, 4700pF, ±20%, AC250V
C806	24092281	CD, 4700pF, ±20%, AC250V
C810	24086883	EL, 330μF, ±20%, 400V
C811	24436101	CD, 100pF
C813	24550682	PF, 6800pF, 63V
C814	24797470	EL, 47μF, 50V
C815	24212102	CD, 1000pF, ±10%
C816	24442331	CD, 330pF, ±10%, 2kV
C818	24095914	PF, 2200pF, ±3%, 1600V
C819	24636010	EL, 1μF, 50V
C820	24797101	EL, 100μF, 50V
C821	24436331	CD, 330pF
C822	24550822	PF, 8200pF, 63V
C823	24442181	CD, 180pF, ±10%, 2kV
C824	24086945	EL, 330μF, ±20%, 200V
C826	24214331	CD, 330pF, ±10%, 500V
C827	24795222	EL, 2200μF, 25V
C829	24636100	EL, 10μF, 50V
C831	24820683	PF, 0.068μF, 630V
C832	24442331	CD, 330pF, ±10%, 2kV
C833	24550104	PF, 0.1μF, 63V
C834	24550393	PF, 0.039μF, 63V
C835	24442221	CD, 220pF, ±10%, 2kV
C836	24636100	EL, 10μF, 50V
C837	24636100	EL, 10μF, 50V
C838	24214181	CD, 180pF, ±10%, 500V
C839	24795332	EL, 3300μF, 25V
C840	24795332	EL, 3300μF, 25V

Location No.	Part No.	Description
C842	24795331	EL, 330μF, 25V
C843	24232103	CD, 0.01μF, +80%, −20%
C845	24797220	EL, 22μF, 50V
⚠ C883	24094655	CD, 1000pF, ±20%, AC400V
⚠ C884	24094655	CD, 1000pF, ±20%, AC400V
⚠ C885	24094656	CD, 2200pF, ±20%, AC400V
C901	24644010	EL, 1μF, 250V
C902	24095981	PF, 2200pF, 1600V
CA01	24794470	EL, 47μF, 16V
CA02	24232103	CD, 0.01μF, +80%, −20%
CA03	24633100	EL, 10μF, 16V
CA05	24232103	CD, 0.01μF, +80%, −20%
CA06	24436300	CD, 30pF
CA07	24436300	CD, 30pF
CA08	24436101	CD, 100pF
CA14	24636479	EL, 4.7μF, 50V
CA15	24707685	EL, 6.8μF, ±20%, 35V
CA16	24707475	EL, 4.7μF, ±20%, 35V
CA19	24212102	CD, 1000pF, ±10%
CA20	24436391	CD, 390pF
CA21	24436221	CD, 220pF
CA22	24550104	PF, 0.1μF, 63V
CA23	24550104	PF, 0.1μF, 63V
CA24	24550104	PF, 0.1μF, 63V
CA25	24636229	EL, 2.2μF, 50V
CA26	24232103	CD, 0.01μF, +80%, −20%
CA27	24232103	CD, 0.01μF, +80%, −20%
CA28	24636100	EL, 10μF, 50V
CA30	24232103	CD, 0.01μF, +80%, −20%
CA31	24232103	CD, 0.01μF, +80%, −20%
CA32	24550104	PF, 0.1μF, 63V
CA37	24795470	EL, 47μF, 25V
CA38	24636100	EL, 10μF, 50V
CA40	24794102	EL, 1000μF, 16V
CB01	24436101	CD, 100pF
CE09	24636010	EL, 1μF, 50V
CE11	24636100	EL, 10μF, 50V
CE12	24085991	EL, 1μF, ±20%, 25V, Non-Polar
CE14	24636478	EL, 0.47μF, 50V
CE15	24633100	EL, 10μF, 16V
CE16	24550224	PF, 0.22μF, 63V
CE17	24085991	EL, 1μF, ±20%, 25V, Non-Polar
CF82	24797331	EL, 330μF, 50V
CH01	24636010	EL, 1μF, 50V
CH02	24636010	EL, 1μF, 50V
CH03	24636010	EL, 1μF, 50V
CH05	24636100	EL, 10μF, 50V
CH06	24232103	CD, 0.01μF, +80%, −20%
CH10	24636010	EL, 1μF, 50V
CH11	24636010	EL, 1μF, 50V
CH12	24636010	EL, 1μF, 50V
CH13	24763471	EL, 470μF, ±20%, 16V
CH14	24763471	EL, 470μF, ±20%, 16V
CH15	24796220	EL, 22μF, 35V
CM01	24436221	CD, 220pF
CM02	24436221	CD, 220pF
CM03	24340080	CD, 8pF, ±0.25pF
CM04	24340080	CD, 8pF, ±0.25pF
CM05	24232103	CD, 0.01μF, +80%, −20%
CM06	24357270	CD, 27pF
CM07	24560273	PF, 0.027μF, 63V
CM08	24232103	CD, 0.01μF, +80%, −20%

Location No.	Part No.	Description
CM09	24232103	CD, 0.01μF, +80%, −20%
CN10	24436101	CD, 100pF
CN11	24353240	CD, 24pF
CN12	24436360	CD, 36pF
CN13	24353220	CD, 22pF
CN14	24436150	CD, 15pF
CN15	24232103	CD, 0.01μF, +80%, −20%
CN16	24353220	CD, 22pF
CN17	24353220	CD, 22pF
CN18	24636010	EL, 1μF, 50V
CN19	24232103	CD, 0.01μF, +80%, −20%
CN20	24232103	CD, 0.01μF, +80%, −20%
CN21	24232103	CD, 0.01μF, +80%, −20%
CN22	24232103	CD, 0.01μF, +80%, −20%
CN23	24232103	CD, 0.01μF, +80%, −20%
CN24	24795101	EL, 100μF, 25V
CN25	24550473	PF, 0.047μF, 63V
CN26	24636229	EL, 2.2μF, 50V
CN27	24232103	CD, 0.01μF, +80%, −20%
CN51	24094959	Variable Capacitor, 2 to 12pF, 50V
CN52	24094959	Variable Capacitor, 2 to 12pF, 50V
CS01	24636100	EL, 10μF, 50V
CS02	24636100	EL, 10μF, 50V
CS03	24636100	EL, 10μF, 50V
CS04	24636010	EL, 1μF, 50V
CV01	24636100	EL, 10μF, 50V
CV02	24636100	EL, 10μF, 50V
CV03	24636100	EL, 10μF, 50V
CV09	24636100	EL, 10μF, 50V
CV10	24636100	EL, 10μF, 50V
CV11	24636100	EL, 10μF, 50V
CV12	24636100	EL, 10μF, 50V
CV13	24636100	EL, 10μF, 50V
CV14	24636100	EL, 10μF, 50V
CV15	24636100	EL, 10μF, 50V
CV16	24636010	EL, 1μF, 50V
CV17	24232103	CD, 0.01μF, +80%, −20%
CV18	24232103	CD, 0.01μF, +80%, −20%
CV19	24763101	EL, 100μF, ±20%, 16V
CV20	24232103	CD, 0.01μF, +80%, −20%
CV21	24212471	CD, 470pF, ±10%
CV22	24212471	CD, 470pF, ±10%
CX02	24550104	PF, 0.1μF, 63V
CX03	24550104	PF, 0.1μF, 63V
CX04	24550104	PF, 0.1μF, 63V
CY01	24636479	EL, 4.7μF, 50V
CY02	24436101	CD, 100pF
CY03	24436271	CD, 270pF
CY04	24436271	CD, 270pF
CY05	24636479	EL, 4.7μF, 50V
CY06	24436101	CD, 100pF
CY07	24436101	CD, 100pF
CY08	24436101	CD, 100pF
CY09	24436331	CD, 330pF
CY10	24436221	CD, 220pF
CY11	24436221	CD, 220pF
CY12	24232103	CD, 0.01μF, +80%, −20%
CY13	24636100	EL, 10μF, 50V
CY14	24550334	PF, 0.33μF, 63V
CY15	24797220	EL, 22μF, 50V
CY16	24636100	EL, 10μF, 50V
CY17	24636479	EL, 4.7μF, 50V

Location No.	Part No.	Description
CY18	24212102	CD, 1000pF, ±10%
CY19	24636100	EL, 10μF, 50V
RESISTORS		
R101	24366152	CF, 1500 ohm
R103	24366392	CF, 3900 ohm
R104	24366123	CF, 12k ohm
R105	24366104	CF, 100k ohm
R106	24360185	CF, 1.8M ohm, 1/8W
R107	24366222	CF, 2200 ohm
R108	24366332	CF, 3300 ohm
R109	24366684	CF, 680k ohm
R110	24366562	CF, 5600 ohm
R111	24366271	CF, 270 ohm
R112	24366331	CF, 330 ohm
R113	24366184	CF, 180k ohm
R114	24366331	CF, 330 ohm
⚠ R115	24552820	OMF, 82 ohm, 1/2W
R116	24366241	CF, 240 ohm
R117	24366101	CF, 100 ohm
R118	24366332	CF, 3300 ohm
R119	24366102	CF, 1k ohm
R120	24366562	CF, 5600 ohm
R121	24366332	CF, 3300 ohm
R122	24366102	CF, 1k ohm
R123	24366331	CF, 330 ohm
R124	24366223	CF, 22k ohm
R125	24366334	CF, 330k ohm
R126	24366182	CF, 1800 ohm
R127	24366153	CF, 15k ohm
R128	24366182	CF, 1800 ohm
R129	24366331	CF, 330 ohm
R130	24366222	CF, 2200 ohm
R131	24366332	CF, 3300 ohm
R132	24366272	CF, 2700 ohm
R133	24366103	CF, 10k ohm
R151	24066952	VR, 10k ohm, 1/10W
R152	24066946	VR, 1M ohm, 1/10W
R153	24066953	VR, 5k ohm, 1/10W
R161	24366131	CF, 130 ohm
R162	24366822	CF, 8200 ohm
R163	24366102	CF, 1k ohm
R164	24366151	CF, 150 ohm
R165	24366680	CF, 68 ohm
R166	24366152	CF, 1500 ohm
R167	24366680	CF, 68 ohm
R168	24366680	CF, 68 ohm
R169	24366390	CF, 39 ohm
R170	24366562	CF, 5600 ohm
R171	24366122	CF, 1200 ohm
R172	24366680	CF, 68 ohm
R173	24366102	CF, 1k ohm
⚠ R177	24552101	OMF, 100 ohm, 1/2W
R178	24366562	CF, 5600 ohm
R181	24366680	CF, 68 ohm
R199	24890101	CF, 100 ohm, 1/4W
R208	24366101	CF, 100 ohm
R209	24366103	CF, 10k ohm
R210	24366203	CF, 20k ohm
R211	24366622	CF, 6200 ohm
R212	24366101	CF, 100 ohm
R213	24366101	CF, 100 ohm
R214	24366182	CF, 1800 ohm
R215	24366152	CF, 1500 ohm

Location No.	Part No.	Description
R216	24366133	CF, 13k ohm
R217	24366101	CF, 100 ohm
R218	24366222	CF, 2200 ohm
R219	24366472	CF, 4700 ohm
R241	24366103	CF, 10k ohm
R242	24366562	CF, 5600 ohm
R243	24366183	CF, 18k ohm
R252	24061591	VR, 2k ohm, 1/8W
R253	24061591	VR, 2k ohm, 1/8W
R255	24066952	VR, 10k ohm, 1/10W
R260	24366103	CF, 10k ohm
R261	24366103	CF, 10k ohm
R301	24366301	CF, 300 ohm
R302	24366244	CF, 240k ohm
R303(U902A)	24366661	CF, 660 ohm
R303(U903)	24366223	CF, 22k ohm
R304	24366102	CF, 1k ohm
R305	24366161	CF, 160 ohm
R309	24366102	CF, 1k ohm
⚠ R311	24552242	OMF, 2400 ohm, 1/2W
R318	24366203	CF, 20k ohm
⚠ R319	24553681	OMF, 680 ohm, 1W
⚠ R320	24322828	OMF, 0.82 ohm, 1W
R321	24366113	CF, 11k ohm
R322	24366823	CF, 82k ohm
⚠ R323	24322828	OMF, 0.82 ohm, 1W
⚠ R325	24552122	OMF, 1200 ohm, 1/2W
⚠ R326	24552122	OMF, 1200 ohm, 1/2W
⚠ R327	24557279	FR, 2.7 ohm, ±10%, 1W
⚠ R328	24322479	OMF, 4.7 ohm, 1W
R329	24376472	CF, 4700 ohm, 1/2W
R333	24366103	CF, 10k ohm
R334	24366103	CF, 10k ohm
R335	24366123	CF, 12k ohm
R337	24366823	CF, 82k ohm
R338	24366473	CF, 47k ohm
R351	24066820	VR, 47k ohm, ±20%
R356	24066713	VR, 10k ohm, ±20%
R357	24066712	VR, 470k ohm, ±20%
R358	24066710	VR, 2200 ohm, ±20%
R361	24367393	CF, 39k ohm, ±2%
R362	24367562	CF, 5600 ohm, ±2%
R363	24367223	CF, 22k ohm, ±2%
R364	24366823	CF, 82k ohm
R366	24366473	CF, 47k ohm
R367	24366104	CF, 100k ohm
⚠ R368	24327911	MF, 910 ohm, ±1%, 1/4W
⚠ R369	24381682	OMF, 6800 ohm, 1/2W
R370	24366682	CF, 6800 ohm
R371	24367393	CF, 39k ohm, ±2%
⚠ R372	24003984	MF, 1k ohm, 1/4W
R373	24366394	CF, 390k ohm
R375	24366182	CF, 1800 ohm
R376	24366102	CF, 1k ohm
R377	24366184	CF, 180k ohm
R378	24366364	CF, 360k ohm
R380	24366153	CF, 15k ohm
R383	24945335	CC, 3.3M ohm, ±10%, 1/4W
R384	24366103	CF, 10k ohm
R402	24366273	CF, 27k ohm
R403	24366302	CF, 3k ohm
R404	24366103	CF, 10k ohm
R405	24366511	CF, 510 ohm
R406	24366621	CF, 620 ohm

Location No.	Part No.	Description
R407	24366201	CF, 200 ohm
R408	24366562	CF, 5600 ohm
R409	24366103	CF, 10k ohm
⚠ R410	24552432	OMF, 4300 ohm, 1/2W
R411	24366301	CF, 300 ohm
R412	24366241	CF, 240 ohm
⚠ R416	24384432	OMF, 4300 ohm, 3W
⚠ R418	24553682	OMF, 6800 ohm, 1W
R419	24942390	CC, 39 ohm, 1/2W
⚠ R420	24009951	OMF, 1k ohm, 1W
R421	24366105	CF, 1M ohm
⚠ R423	24552221	OMF, 220 ohm, 1/2W
⚠ R440	24552103	OMF, 10k ohm, 1/2W
⚠ R441	24552103	OMF, 10k ohm, 1/2W
⚠ R444	24323828	OMF, 0.82 ohm, 2W
⚠ R446	24532151	FR, 150 ohm, 1W
⚠ R448	24547479	FR, 4.7 ohm, 1W
R451	24066499	VR, 22k ohm, ±20%
R452	24069547	VR, 5k ohm, 0.08W
R502	24366334	CF, 330k ohm
R503	24366202	CF, 2k ohm
R504	24366391	CF, 390 ohm
R505	24366822	CF, 8200 ohm
R507	24366822	CF, 8200 ohm
R509	24366203	CF, 20k ohm
R510	24366101	CF, 100 ohm
R511	24366562	CF, 5600 ohm
R512	24366152	CF, 1500 ohm
R513	24366152	CF, 1500 ohm
R514	24366562	CF, 5600 ohm
R515	24366221	CF, 220 ohm
R516	24366221	CF, 220 ohm
R517	24366221	CF, 220 ohm
R521	24366102	CF, 1k ohm
R522	24366185	CF, 1.8M ohm, 1/8W
R523	24366303	CF, 30k ohm
R531	24366102	CF, 1k ohm
R532	24366272	CF, 2700 ohm
R533	24366132	CF, 1300 ohm
R534	24376104	CF, 100k ohm, 1/2W
R535	24366302	CF, 3k ohm
R536	24376104	CF, 100k ohm, 1/2W
R537	24366132	CF, 1300 ohm
R538	24366332	CF, 3300 ohm
R539	24366132	CF, 1300 ohm
R540	24376104	CF, 100k ohm, 1/2W
R541	24366821	CF, 820 ohm
R542	24366271	CF, 270 ohm
R543	24366103	CF, 10k ohm
R544	24366101	CF, 100 ohm
R545	24366101	CF, 100 ohm
R547	24366471	CF, 470 ohm
R548	24366471	CF, 470 ohm
R549	24366471	CF, 470 ohm
R551	24066955	VR, 1k ohm, 1/10W
R557	24061591	VR, 2k ohm, 1/8W
R558	24061591	VR, 2k ohm, 1/8W
R559	24061591	VR, 2k ohm, 1/8W
R560	24366512	CF, 5100 ohm
R561	24366821	CF, 820 ohm
R562	24366333	CF, 33k ohm
R565	24366512	CF, 5100 ohm
R566	24366512	CF, 5100 ohm
R567	24366333	CF, 33k ohm

Location No.	Part No.	Description
R568	24366821	CF, 820 ohm
R569	24366333	CF, 33k ohm
R570	24366562	CF, 5600 ohm
R571	24366562	CF, 5600 ohm
R572	24366562	CF, 5600 ohm
R573	24366104	CF, 100k ohm
⚠ R591	24009957	OMF, 10k ohm, 2W
⚠ R592	24009957	OMF, 10k ohm, 2W
⚠ R593	24009957	OMF, 10k ohm, 2W
R603	24366102	CF, 1k ohm
R604	24366101	CF, 100 ohm
R605	24366681	CF, 680 ohm
R606	24366562	CF, 5600 ohm
R607	24366102	CF, 1k ohm
R609	24366102	CF, 1k ohm
R612	24366154	CF, 150k ohm
R613	24366682	CF, 6800 ohm
R614	24366682	CF, 6800 ohm
R618	24366103	CF, 10k ohm
R619	24366122	CF, 1200 ohm
R620	24366103	CF, 10k ohm
R621	24366122	CF, 1200 ohm
R622	24366122	CF, 1200 ohm
R624	24366154	CF, 150k ohm
R625	24366154	CF, 150k ohm
R626	24366472	CF, 4700 ohm
R627	24366472	CF, 4700 ohm
R628	24366103	CF, 10k ohm
R629	24366103	CF, 10k ohm
R630	24366223	CF, 22k ohm
R631	24366223	CF, 22k ohm
R632	24366201	CF, 200 ohm
R633	24366201	CF, 200 ohm
⚠ R634	24321229	OMF, 2.2 ohm, 1/2W
⚠ R635	24321229	OMF, 2.2 ohm, 1/2W
⚠ R636	24321229	OMF, 2.2 ohm, 1/2W
⚠ R637	24321229	OMF, 2.2 ohm, 1/2W
R638	24366271	CF, 270 ohm
R639	24366271	CF, 270 ohm
R641	24366562	CF, 5600 ohm
R642	24366562	CF, 5600 ohm
R643	24366103	CF, 10k ohm
R645	24366682	CF, 6800 ohm
R646	24366682	CF, 6800 ohm
R647	24366473	CF, 47k ohm
R648	24366103	CF, 10k ohm
R660	24946221	CC, 220 ohm, ±10%, 1/2W
R661	24946221	CC, 220 ohm, ±10%, 1/2W
R664	24366471	CF, 470 ohm
R665	24366563	CF, 56k ohm
R666	24366563	CF, 56k ohm
R667	24366102	CF, 1k ohm
R668	24366102	CF, 1k ohm
R669	24366102	CF, 1k ohm
R679	24366102	CF, 1k ohm
R680	24366152	CF, 1500 ohm
R681	24366223	CF, 22k ohm
R682	24366105	CF, 1M ohm
R683	24366561	CF, 560 ohm
⚠ R686	24552431	OMF, 430 ohm, 1/2W
R687	24366102	CF, 1k ohm
⚠ R801	24007857	Cement, 6.2 ohm, 15W
R810	24377274	CF, 270k ohm, 1W
R814	24366823	CF, 82k ohm

Location No.	Part No.	Description
R815	24366221	CF, 220 ohm
R816	24367122	CF, 1200 ohm, ±2%
⚠ R817	24321688	OMF, 0.68 ohm, 1/2W
⚠ R818	24384203	OMF, 20k ohm, 3W
R819	24366689	CF, 6.8 ohm
⚠ R821	24007778	Cement, 180 ohm, 7W
R822	24366390	CF, 39 ohm
R823	24367912	CF, 9100 ohm, ±2%
R824	24366123	CF, 12k ohm
⚠ R825	24531620	FR, 62 ohm, 1/2W
⚠ R828	24383123	OMF, 12k ohm, 2W
R832	24366272	CF, 2700 ohm
R834	24366101	CF, 100 ohm
⚠ R836	24321228	OMF, 0.22 ohm, 1/2W
R838	24366561	CF, 560 ohm
R841	24366472	CF, 4700 ohm
⚠ R843	24383134	OMF, 130k ohm, 2W
⚠ R844	24383134	OMF, 130k ohm, 2W
R845	24377224	CF, 220k ohm, 1W
⚠ R846	24552101	OMF, 100 ohm, 1/2W
⚠ R847	24382390	OMF, 39 ohm, 1W
R848	24366681	CF, 680 ohm
R849	24366681	CF, 680 ohm
R851	24066620	VR, 2200 ohm, ±20%
R860	24366822	CF, 8200 ohm
⚠ R861	24531100	FR, 10 ohm, 1/2W
R862	24366681	CF, 680 ohm
R863	24366471	CF, 470 ohm
⚠ R864	24000954	FR, 0.68 ohm, ±10%, 2W
⚠ R870	24007822	Cement, 82 ohm, 5W
⚠ R875	24384822	OMF, 8200 ohm, 3W
⚠ R876	24982109	MF, 1 ohm, 1/2W
R877	24366102	CF, 1k ohm
⚠ R878	24383101	OMF, 100 ohm, 2W
⚠ R890	24000630	PTC Thermistor, Dual
R901	24946272	CC, 2700 ohm, ±10%, 1/2W
R902	24946272	CC, 2700 ohm, ±10%, 1/2W
R903	24946272	CC, 2700 ohm, ±10%, 1/2W
⚠ R920	24000818	FR, 5.6 ohm, 1W
RA03	24366102	CF, 1k ohm
RA04	24366102	CF, 1k ohm
RA05	24366103	CF, 10k ohm
RA06	24366102	CF, 1k ohm
RA09	24366103	CF, 10k ohm
RA11	24366102	CF, 1k ohm
RA12	24366153	CF, 15k ohm
RA15	24366102	CF, 1k ohm
RA17	24366102	CF, 1k ohm
RA18	24366101	CF, 100 ohm
RA20	24366102	CF, 1k ohm
RA21	24366223	CF, 22k ohm
RA22	24366333	CF, 33k ohm
RA23	24366333	CF, 33k ohm
RA24	24366333	CF, 33k ohm
RA25	24360225	CF, 2.2M ohm, 1/8W
RA26	24366101	CF, 100 ohm
RA27	24366333	CF, 33k ohm
RA28	24366473	CF, 47k ohm
RA29	24366103	CF, 10k ohm
RA30	24366102	CF, 1k ohm
RA32	24366102	CF, 1k ohm
RA34	24366123	CF, 12k ohm
RA35	24366102	CF, 1k ohm
RA36	24366102	CF, 1k ohm

Location No.	Part No.	Description
RA40	24366472	CF, 4700 ohm
RA41	24366103	CF, 10k ohm
RA42	24366392	CF, 3900 ohm
RA43	24366182	CF, 1800 ohm
RA44	24366103	CF, 10k ohm
RA45	24366102	CF, 1k ohm
RA46	24366682	CF, 6800 ohm
RA47	24366133	CF, 13k ohm
RA48	24366163	CF, 16k ohm
RA61	24366473	CF, 47k ohm
RA62	24366473	CF, 47k ohm
RA70	24945565	CC, 5.6M ohm, ±10%, 1/4W
RA71	24945565	CC, 5.6M ohm, ±10%, 1/4W
RA72	24945565	CC, 5.6M ohm, ±10%, 1/4W
RA73	24945565	CC, 5.6M ohm, ±10%, 1/4W
RA74	24366472	CF, 4700 ohm
RA75	24366471	CF, 470 ohm
RA76	24366471	CF, 470 ohm
RA77	24366471	CF, 470 ohm
RA79	24366123	CF, 12k ohm
RA80	24366221	CF, 220 ohm
RA81	24366103	CF, 10k ohm
RA82	24366103	CF, 10k ohm
RA83	24366103	CF, 10k ohm
RA84	24366622	CF, 6200 ohm
RA86	24366392	CF, 3900 ohm
RA91	24366472	CF, 4700 ohm
RA92	24366103	CF, 10k ohm
RA93	24366102	CF, 1k ohm
RB01	24366472	CF, 4700 ohm
RB02	24366332	CF, 3300 ohm
RB03	24366103	CF, 10k ohm
RB04	24366103	CF, 10k ohm
RB05	24366332	CF, 3300 ohm
RB06	24366473	CF, 47k ohm
RE08	24366103	CF, 10k ohm
RE09	24366222	CF, 2200 ohm
RE10	24366392	CF, 3900 ohm
RE11	24366562	CF, 5600 ohm
RE12	24366392	CF, 3900 ohm
RE35	24366222	CF, 2200 ohm
RE36	24366823	CF, 82k ohm
RE37	24366823	CF, 82k ohm
RE38	24366563	CF, 56k ohm
RE39	24366202	CF, 2k ohm
RE40	24366123	CF, 12k ohm
RE41	24366103	CF, 10k ohm
RE42	24366472	CF, 4700 ohm
RE43	24366563	CF, 56k ohm
⚠ RF80	24322109	OMF, 1 ohm, 1W
⚠ RF81	24382273	OMF, 27k ohm, 1W
RH01	24366220	CF, 22 ohm
RH02	24366220	CF, 22 ohm
RH03	24366220	CF, 22 ohm
RH04	24366510	CF, 51 ohm
RH06	24366510	CF, 51 ohm
RH08	24366510	CF, 51 ohm
RH10	24366510	CF, 51 ohm
RH11	24366510	CF, 51 ohm
RH12	24366510	CF, 51 ohm
RH13	24366220	CF, 22 ohm
RH14	24366220	CF, 22 ohm
RH15	24366220	CF, 22 ohm
RH16	24366103	CF, 10k ohm

Location No.	Part No.	Description
RH17	24366680	CF, 68 ohm
RH18	24366910	CF, 91 ohm
RH19	24366474	CF, 470k ohm
RH20	24366474	CF, 470k ohm
RH21	24366910	CF, 91 ohm
RH22	24366103	CF, 10k ohm
RH23	24366474	CF, 470k ohm
RH24	24366680	CF, 68 ohm
RH25	24366474	CF, 470k ohm
RH26	24366471	CF, 470 ohm
RH29	24366152	CF, 1500 ohm
RH30	24366472	CF, 4700 ohm
RH31	24366750	CF, 75 ohm
RH32	24366750	CF, 75 ohm
RH33	24366474	CF, 470k ohm
RM03	24366432	CF, 4300 ohm
RM04	24366103	CF, 10k ohm
RM05	24366471	CF, 470 ohm
RM06	24366221	CF, 220 ohm
RM26	24366333	CF, 33k ohm
RN04	24366105	CF, 1M ohm
RN08	24366224	CF, 220k ohm
RN09	24360185	CF, 1.8M ohm, 1/8W
RN10	24366473	CF, 47k ohm
RN11	24366473	CF, 47k ohm
RN12	24366272	CF, 2700 ohm
RN13	24366103	CF, 10k ohm
RN14	24366103	CF, 10k ohm
RN15	24366223	CF, 22k ohm
RN16	24366103	CF, 10k ohm
RN18	24366102	CF, 1k ohm
RN20	24366103	CF, 10k ohm
RN22	24366152	CF, 1500 ohm
RN23	24366472	CF, 4700 ohm
RN24	24366103	CF, 10k ohm
RN25	24366154	CF, 150k ohm
RN26	24366472	CF, 4700 ohm
RN27	24366472	CF, 4700 ohm
RN28	24366472	CF, 4700 ohm
RN29	24366562	CF, 5600 ohm
RN30	24366562	CF, 5600 ohm
RN31	24366152	CF, 1500 ohm
RN32	24366473	CF, 47k ohm
RN33	24366223	CF, 22k ohm
RN34	24366103	CF, 10k ohm
RN35	24366102	CF, 1k ohm
RN36	24366103	CF, 10k ohm
RN37	24366103	CF, 10k ohm
RN38	24366103	CF, 10k ohm
RN39	24366103	CF, 10k ohm
RN40	24366103	CF, 10k ohm
RN41	24366473	CF, 47k ohm
RN42	24366472	CF, 4700 ohm
RN43	24366102	CF, 1k ohm
RN44	24366182	CF, 1800 ohm
RN45	24366152	CF, 1500 ohm
RN46	24366103	CF, 10k ohm
RN47	24366473	CF, 47k ohm
RN48	24366103	CF, 10k ohm
RN49	24366473	CF, 47k ohm
RN51	24061582	VR, 200 ohm, 1/8W
RN52	24061582	VR, 200 ohm, 1/8W
RN60	24366182	CF, 1800 ohm
RR06	24366391	CF, 390 ohm

Location No.	Part No.	Description
RS01	24366473	CF, 47k ohm
RS02	24366473	CF, 47k ohm
RS03	24366473	CF, 47k ohm
RS04	24366473	CF, 47k ohm
RS05	24366103	CF, 10k ohm
RS06	24366101	CF, 100 ohm
RS07	24366820	CF, 82 ohm
RS08	24366820	CF, 82 ohm
RS09	24366101	CF, 100 ohm
RV01	24366821	CF, 820 ohm
RV02	24366102	CF, 1k ohm
RV03	24366101	CF, 100 ohm
RV04	24366101	CF, 100 ohm
RV05	24366101	CF, 100 ohm
RV06	24366101	CF, 100 ohm
RV07	24366101	CF, 100 ohm
RV08	24366101	CF, 100 ohm
RV09	24366103	CF, 10k ohm
RV11	24366103	CF, 10k ohm
RV12	24366101	CF, 100 ohm
RV13	24366102	CF, 1k ohm
RV14	24366100	CF, 10 ohm
RV15	24366332	CF, 3300 ohm
RV16	24366332	CF, 3300 ohm
RV18	24366101	CF, 100 ohm
⚠ RV19	24652750	OMF, 75 ohm, 1/2W
RV20	24366101	CF, 100 ohm
RV21	24366391	CF, 390 ohm
RV22	24366473	CF, 47k ohm
RV23	24366103	CF, 10k ohm
RV24	24366473	CF, 47k ohm
RV25	24366473	CF, 47k ohm
RV26	24366473	CF, 47k ohm
RV27	24366472	CF, 4700 ohm
RV28	24366103	CF, 10k ohm
RV29	24366103	CF, 10k ohm
RV30	24366152	CF, 1500 ohm
RV32	24366471	CF, 470 ohm
RV33	24366103	CF, 10k ohm
RV34	24366103	CF, 10k ohm
RV35	24366103	CF, 10k ohm
RV36	24366103	CF, 10k ohm
RV37	24366473	CF, 47k ohm
RV38	24366473	CF, 47k ohm
RV39	24366473	CF, 47k ohm
RV40	24366473	CF, 47k ohm
RV41	24366473	CF, 47k ohm
RV42	24366563	CF, 56k ohm
RV43	24366563	CF, 56k ohm
RV44	24366472	CF, 4700 ohm
RV45	24366472	CF, 4700 ohm
RV46	24366102	CF, 1k ohm
RV47	24366472	CF, 4700 ohm
RV48	24366103	CF, 10k ohm
RV49	24366473	CF, 47k ohm
RV62	24366103	CF, 10k ohm
RX02	24366102	CF, 1k ohm
RX05	24366101	CF, 100 ohm
RX08	24366101	CF, 100 ohm
RX10	24366101	CF, 100 ohm
RX13	24366102	CF, 1k ohm
RY01	24366102	CF, 1k ohm
RY02	24366681	CF, 680 ohm
RY03	24366681	CF, 680 ohm

Location No.	Part No.	Description
RY04	24366102	CF, 1k ohm
RY05	24366101	CF, 100 ohm
RY06	24366101	CF, 100 ohm
RY07	24367122	CF, 1200 ohm, ±2%
RY08	24366132	CF, 1300 ohm
RY09	24366152	CF, 1500 ohm
RY11	24366202	CF, 2k ohm
RY12	24366302	CF, 3k ohm
RY13	24366512	CF, 5100 ohm
RY14	24366912	CF, 9100 ohm
RY15	24366242	CF, 2400 ohm
RY16	24366561	CF, 560 ohm
RY17	24366561	CF, 560 ohm
RY18	24366132	CF, 1300 ohm
RY19	24366182	CF, 1800 ohm
RY21	24366101	CF, 100 ohm
RY22	24366153	CF, 15k ohm
RY31	24366151	CF, 150 ohm
RY32	24366182	CF, 1800 ohm
RY34	24366182	CF, 1800 ohm
RY35	24366181	CF, 180 ohm
RY36	24366183	CF, 18k ohm
RY37	24366331	CF, 330 ohm
RY38	24366223	CF, 22k ohm
RY45	24366472	CF, 4700 ohm
COILS & TRANSFORMERS		
L102	23262821	Coil, PIF, TRF1069
L104	23238924	Coil, Peaking, TRF4689AC
L105	23238923	Coil, Peaking, TRF4829AC
L106	23238922	Coil, Peaking, TRF4100AC
L107	23238920	Coil, Peaking, TRF4150AC
L108	23238928	Coil, Peaking, TRF4339AC
L151	23262813	Coil, IF Coil, TRF1077D
L152	23262813	Coil, IF Coil, TRF1077D
L161	23261985	Coil, RF Choke, TRF9221
L311	23261974	Coil (Ferrite Bead), HC5-035
L361	23221738	Coil, Choke, TLN3132D
L362	23211896	Coil, Choke, AT4043/60T
L363	23211897	Coil, Choke, AT4043/100T
L406	23103859	Coil (Ferrite Bead), TEM2011
L411	23233068	Coil, Linearity, TLN2117
L412	23221936	Coil, Choke, TLN3041
⚠ L462	23227340	Deflection Yoke, AT6000/01
L503	23237987	Coil, Peaking, TRF4100AC
L551	23250972	Coil, 1H-Delay Matching, TRF5418D
L601	23262951	Coil, RF Choke, TRF1019
L602	23262841	Coil, PIF, TRF1057
L651	23232942	Coil, Variable, TRF3077
L661	23237986	Coil, Peaking, TRF4120AC
L662	23232946	Coil, Variable, TRF3073D
L801	23221060	Coil, RF Choke, TLN1015
L802	23103859	Coil (Ferrite Bead), TEM2011
L803	23261975	Coil, Choke, TRF9229
L804	23261975	Coil, Choke, TRF9229
L805	23222694	Coil, Width, TLN2026
L806	23103859	Coil (Ferrite Bead), TEM2011
L807	23222694	Coil, Width, TLN2026
L810	23103859	Coil (Ferrite Bead), TEM2011
L811	23103859	Coil (Ferrite Bead), TEM2011
L812	23103859	Coil (Ferrite Bead), TEM2011
L813	23222694	Coil, Width, TLN2026
⚠ L901	23200713	Coil, Degaussing, TSB2282

Location No.	Part No.	Description
LA01	23238934	Coil, Peaking, TRF4109AC
LA02	23221803	Coil, Choke, TLN3040D
LB01	23262778	Coil, IF Coil, TRF1112
LM01	23262797	Coil, IF Coil, TRF1093D
LM02	23272988	Coil, Chroma Demod, TRF5414
LM03	23272988	Coil, Chroma Demod, TRF5414
LM04	23262798	Coil, IF Coil, TRF1092D
LN03	23237983	Coil, Peaking, TRF4220AC
LV01	23238921	Coil, Peaking, TRF4120AC
LY03	23237983	Coil, Peaking, TRF4220AC
LY04	23237981	Coil, Peaking, TRF4330AC
⚠ T401	23224997	Transformer, Horiz. Drive, TLN1027
⚠ T461	23236089	Transformer, Flyback, G4298
T801	23211925	Line Filter, TRF3128
T802	23211962	Line Filter, TRF3117
⚠ T803	23213580	Transformer, Converter, G4326-04
T804	23213582	Transformer, Converter, TPW3105
TN01	23262664	Coil, IF Coil, TRF1151T
TN02	23262656	Coil, IF Coil, TRF1152T
SEMICONDUCTORS		
IC101	23318286	IC, T51419SP
IC303	23318301	IC, TDA8170
IC361	23318231	IC, TEA2031A
IC408	23318218	IC, μPC7812H
IC501	B0379435	IC, TA8653N
IC601	23318390	IC, TDA4480-2
IC602	B0356190	IC, TA7630P
IC606	23318195	IC, AN7171NK
IC661	B0383400	IC, TA8710S
⚠ IC801	23318232	IC, TDA4601
IC805	23318299	IC, L78MR05-FA
ICA01	23318396	IC, M50436-682SP
ICA02	23119182	IC, PD6336C
ICA03	23318397	IC, M6M80021P
ICA04	B0349250	IC, TA75393S
ICA12	23119441	IC, LA7910
ICH01	23119139	IC, AN5862K
ICV01	B0383500	IC, TA8720N
ICY01	23318055	IC, TDA4565
Q102	23118980	Transistor, BC337
Q161	A6708871	Transistor, 2SC388ATM
Q162	A6708871	Transistor, 2SC388ATM
Q163	A6708871	Transistor, 2SC388ATM
Q164	A6708871	Transistor, 2SC388ATM
Q202	23114689	Transistor, BC547A
Q304	23114689	Transistor, BC547A
Q305	23114689	Transistor, BC547A
Q362	23114689	Transistor, BC547A
Q363	23114689	Transistor, BC547A
Q402	A678971D	Transistor, 2SC1569 FA-5
⚠ Q404	23314376	Transistor, BU508AF
Q406	A671656A	Transistor, 2SC495-Y
Q505	23114693	Transistor, BF871
Q506	23114689	Transistor, BC547A
Q507	23114693	Transistor, BF871
Q508	23114689	Transistor, BC547A
Q509	23114693	Transistor, BF871

Location No.	Part No.	Description
Q510	23114689	Transistor, BC547A
Q514	23114688	Transistor, BC327
Q515	23114689	Transistor, BC547A
Q516	A6734585	Transistor, 2SC752GTM-O
Q518	A6734585	Transistor, 2SC752GTM-O
Q519	23114689	Transistor, BC547A
Q603	A6708871	Transistor, 2SC368ATM
Q604	23114689	Transistor, BC547A
Q605	23114689	Transistor, BC547A
Q607	23114691	Transistor, BC557A
Q608	23114689	Transistor, BC547A
Q660	23114689	Transistor, BC547A
Q802	A6870900	Transistor, 2SD1648
Q804	23114689	Transistor, BC547A
Q807	23314018	Transistor, 2SC3678
Q807E	23030211	Screw, 3X14SN
Q808	A6534145	Transistor, 2SA1020-Y
Q809	23114632	Transistor, BC547B
Q810	23114546	Transistor, BC557B
QA05	23114689	Transistor, BC547A
QA06	23114689	Transistor, BC547A
QA07	23114691	Transistor, BC557A
QA08	23114691	Transistor, BC557A
QA10	23114689	Transistor, BC547A
QA11	23114689	Transistor, BC547A
QA15	23114689	Transistor, BC547A
QA22	23114689	Transistor, BC547A
QB01	23114689	Transistor, BC547A
QB02	23114689	Transistor, BC547A
QE08	23114689	Transistor, BC547A
QE09	23114691	Transistor, BC557A
QE10	23114689	Transistor, BC547A
QE11	23114691	Transistor, BC557A
QF80	23314374	Transistor, BD945
QN02	23114691	Transistor, BC557A
QN03	23114691	Transistor, BC557A
QN05	23114689	Transistor, BC547A
QN06	23114689	Transistor, BC547A
QN07	23114689	Transistor, BC547A
QN08	23114689	Transistor, BC547A
QN09	23114689	Transistor, BC547A
QN10	23114689	Transistor, BC547A
QN11	23114689	Transistor, BC547A
QN12	A6041876	Transistor, 2SK117-GR FA-2
QN14	23114689	Transistor, BC547A
QS01	23114689	Transistor, BC547A
QS02	23114689	Transistor, BC547A
QS03	23114691	Transistor, BC557A
QV02	23114689	Transistor, BC547A
QV03	23114689	Transistor, BC547A
QV04	23114689	Transistor, BC547A
QV05	23114689	Transistor, BC547A
QV06	23114691	Transistor, BC557A
QV07	23114689	Transistor, BC547A
QV08	A6342200	Transistor, 2SC2878-A
QV09	23114689	Transistor, BC547A
QV11	23114689	Transistor, BC547A
QV12	23114689	Transistor, BC547A
QV13	23114691	Transistor, BC557A
QV14	23114691	Transistor, BC557A
QV15	23114689	Transistor, BC547A
QV16	23114689	Transistor, BC547A
QY05	23114691	Transistor, BC557A
QY08	23114689	Transistor, BC547A

Location No.	Part No.	Description
QY09	23114689	Transistor, BC547A
QY10	23114689	Transistor, BC547A
QY11	23114689	Transistor, BC547A
QY12	23114689	Transistor, BC547A
QY13	23114691	Transistor, BC557A
D241	A7150041	Diode, 1SS104
D302	A7568250	Diode, 1S1834
D303	23118102	Diode, Zener, ZPY-6.8
D305	23118479	Diode, BYD33J
D306	23115599	Diode, 1N4148
D314	A7117205	Diode, Zener, 04AZ12X
D315	A7110160	Diode, Zener, 05Z7.5Y
D361	A7110612	Diode, Zener, 05Z18Z
D362	23115599	Diode, 1N4148
D363	23118633	Diode, Zener, RD3.0ES-B2
D367	23115599	Diode, 1N4148
D368	A7110725	Diode, Zener, 05Z30Y
D401	23118675	Diode, Zener, 04AZ9.1Z
D402	A7117215	Diode, Zener, 04AZ12Y
D405	A7110634	Diode, Zener, 05Z20Y
D406	23118479	Diode, BYD33J
D408	23118479	Diode, BYD33J
D409	A7110311	Diode, Zener, 05Z10X
D410	A7116815	Diode, Zener, 04AZ8.2Y
D440	23118995	Diode, BY228
D441	23118994	Diode, BYW95C
D591	23115599	Diode, 1N4148
D592	23115599	Diode, 1N4148
D593	23115599	Diode, 1N4148
D594	23115599	Diode, 1N4148
D595	23115599	Diode, 1N4148
D596	23115599	Diode, 1N4148
D604	23115599	Diode, 1N4148
D605	A7110017	Diode, Zener, 05Z5.6Y
⚠ D801	23118173	Diode, RBV-406M-LFA
D805	23118479	Diode, BYD33J
D806	23118479	Diode, BYD33J
D807	23118479	Diode, BYD33J
D808	23118736	Diode, BYV96E
D809	23118451	Diode, RU4A
D810	23118054	Diode, BYD73D
D811	23118479	Diode, BYD33J
D812	A7116515	Diode, Zener, 04AZ6.2Y
D818	23118736	Diode, BYV96E
D819	23115599	Diode, 1N4148
D820	23118479	Diode, BYD33J
D821	23118479	Diode, BYD33J
D822	23118526	Diode, Zener, RD6.8ES-B2
D823	23118479	Diode, BYD33J
D824	23118532	Diode, Zener, RD5.1ES-B2
D825	23118479	Diode, BYD33J
D826	23118479	Diode, BYD33J
D827	A7680725	Diode, 10DL2C41
D829	23118479	Diode, BYD33J
D830	23118479	Diode, BYD33J
DA01	23115599	Diode, 1N4148
DA02	23115599	Diode, 1N4148
DA03	23115599	Diode, 1N4148
DA05	23115599	Diode, 1N4148
DA06	23115599	Diode, 1N4148
DA07	23115599	Diode, 1N4148
DA08	23115599	Diode, 1N4148
DA09	23115599	Diode, 1N4148
DA13	23115599	Diode, 1N4148

Location No.	Part No.	Description
DA14	23115599	Diode, 1N4148
DA17	23115599	Diode, 1N4148
DA18	23115599	Diode, 1N4148
DA23	23115599	Diode, 1N4148
DA25	23115599	Diode, 1N4148
DA26	23115599	Diode, 1N4148
DA28	23115599	Diode, 1N4148
DA30	23115878	Diode, Zener, μPC574J (L)
DA31	23115599	Diode, 1N4148
DA32	23115599	Diode, 1N4148
DA34	23115599	Diode, 1N4148
DA35	23115599	Diode, 1N4148
DA36	23115599	Diode, 1N4148
DA37	23115599	Diode, 1N4148
DA38	23115599	Diode, 1N4148
DE11	A7288601	Diode, 1S2186 FA-1
DE12	A7288601	Diode, 1S2186 FA-1
DE13	A7288601	Diode, 1S2186 FA-1
DE40	23118969	Diode (LED), MV57124, Red
DF80	A7117305	Diode, Zener, 04AZ13X
DH01	23115599	Diode, 1N4148
DH02	23115599	Diode, 1N4148
DH03	23115599	Diode, 1N4148
DH04	23115599	Diode, 1N4148
DH05	23115599	Diode, 1N4148
DH06	23115599	Diode, 1N4148
DH10	A7109474	Diode, Zener, 05Z4.7Y
DH11	A7110208	Diode, Zener, 05Z8.2Y
DH12	A7110208	Diode, Zener, 05Z8.2Y
DN01	A7288601	Diode, 1S2186 FA-1
DN02	A7110040	Diode, Zener, 05Z5.1X
DN03	A7288601	Diode, 1S2186 FA-1
DN06	A7288601	Diode, 1S2186 FA-1
DN07	A7288601	Diode, 1S2186 FA-1
DN12	A7288601	Diode, 1S2186 FA-1
DN15	A7288601	Diode, 1S2186 FA-1
DN16	A7288601	Diode, 1S2186 FA-1
DN18	23115599	Diode, 1N4148
DR01	A8641942	Photo Coupler, TLP631-GB
DV01	23115599	Diode, 1N4148
DV02	23115599	Diode, 1N4148
DV03	23115599	Diode, 1N4148
DV04	A7116915	Diode, Zener, 04AZ9.1Y
DV05	23115599	Diode, 1N4148
DV06	23115599	Diode, 1N4148
DV10	23115599	Diode, 1N4148
DV11	23115599	Diode, 1N4148

MISCELLANEOUS

Location No.	Part No.	Description
⚠ F801	23144898	Fuse, 3.15A
F801A	23845691	Fuse Clip
K901	23120611	Remote Sensor, IR-9101-M
P003	23161699	Terminal, 4P
P661	23363607	Headphone Jack, 3.5mm
⚠ P801	23176704	Power Cord
PH01	23365025	Connector, 21Pin
PH02	23365025	Connector, 21Pin
PV01	23366259	Jack, 4P
PV02	23364856	Jack, Phono, 2P
S001	23145467	Switch, Slide, 2C2P
S202	23145542	Switch, Lever, 1C3P
S301	23145682	Switch, Lever, 1C3P
⚠ S801	23344069	Mains Switch, PBMS-3025
S801B	23035308	Screw, BTB3X8SZN
SA01	23145428	Switch, Push, 1C1Px3
SA02	23145428	Switch, Push, 1C1Px3
SA03	23145429	Switch, Push, 1C1Px3
SA04	23145429	Switch, Push, 1C1Px3
SA05	23145429	Switch, Push, 1C1Px3
SA06	23145429	Switch, Push, 1C1Px3
SA07	23145428	Switch, Push, 1C1Px4
SA08	23145428	Switch, Push, 1C1Px4
SA09	23145428	Switch, Push, 1C1Px4
SA10	23145428	Switch, Push, 1C1Px4
⚠ V901A	23901293	Socket, CRT, 10P
W201	23250878	Coil, Delay Line, TRF2083
W661	23151372	Speaker, SPK1146, 60x120mm, 8 ohm
W662	23151277	Speaker, SPK1248, 120x60mm, 8 ohm
W663	23151372	Speaker, SPK1146, 60x120mm, 8 ohm
W664	23151277	Speaker, SPK1248, 120x60mm, 8 ohm
X401	23153886	Ceramic Resonator, 503kHz, TCR1012
X501	23153979	Crystal, 4.43MHz
X502	23250950	Coil, 1H-Delay Line, DL711
Z101	A5613172	PIF SAW Filter, F1038E
Z102	23153795	Ceramic Resonator, 500kHz, TCR1109
Z103	23107925	Ceramic Video Trap, 6.5MHz, TCF1013
Z104	23107911	Ceramic Video Trap, 5.5 to 6MHz, TCF1019
Z105	23107658	Ceramic Video Trap, 5.74MHz, TCF1052
Z601	A5613023	SIF SAW Filter, F3288M
Z661	23107947	Ceramic Filter, 5.5MHz, SFE5.5MBF
Z662	23107948	Ceramic Filter, 6.0MHz, SFE6.0MBF
Z663	23107949	Ceramic Filter, 6.5MHz, SFE6.5MBF
Z664	23153900	Ceramic Resonator, 500kHz, TCR1010
Z666	23107948	Ceramic Filter, 6.0MHz, SFE6.0MBF
ZA01	23153847	Ceramic Resonator, 4MHz, TCR1014
ZA02	24000877	Resister Block, 10k ohmx4, 1/8W
ZV01	23107849	Ceramic Video Trap, 4.43MHz, TCF1032

PC BOARD ASSEMBLIES

Location No.	Part No.	Description
U902A	23334198	Main Board, PW6797
U903	23334197	Power/DEF Board, PW6798
U904A	23334199	CRT Drive Board, PW6799-1
U904B	23334200	Back Terminal Board, PW6799-2
U904C	23334201	Mains SW. Board, PW6799-3
U904D	23334202	IR-AMP Board, PW6799-4

PICTURE TUBE

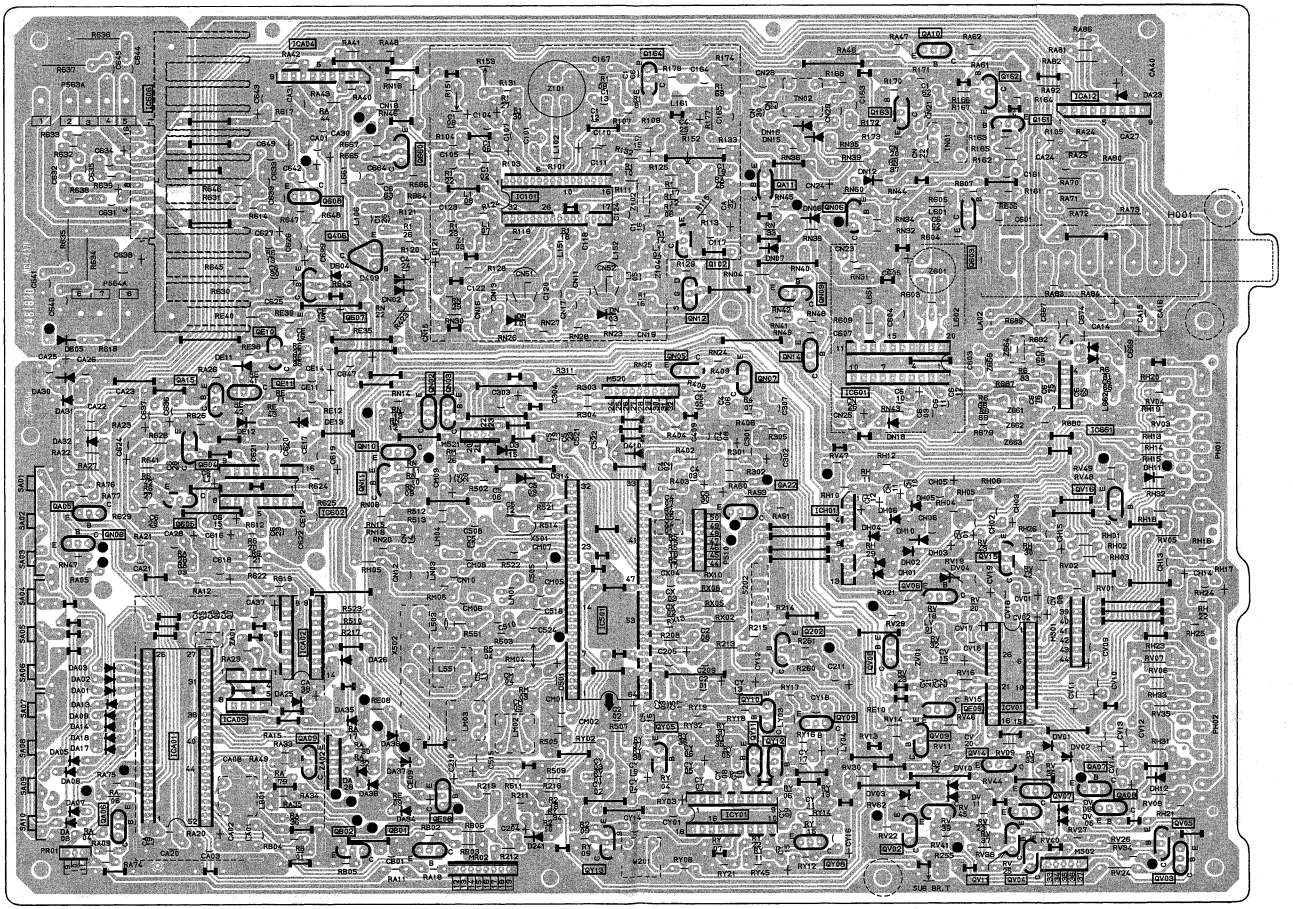
Location No.	Part No.	Description
⚠ V901	23312147	Picture Tube, A66EAK00X

Location No.	Part No.	Description
TUNER		
H001	23121612	Tuner, EF442A
REMOTE HAND SET PARTS		
K902	23120534	Remote Hand Unit, CT-9294
AT01	23300936	Upper Case
AT02	23300919	Lower Case
AT03	23300920	Battery Cover
AT04	23300921	Filter
ST01	23300937	Rubber
UT01	23334590	Remote Hand Unit Board, PW6918
ZT01	23153736	Ceramic Resonator, TCR1025

Location No.	Part No.	Description

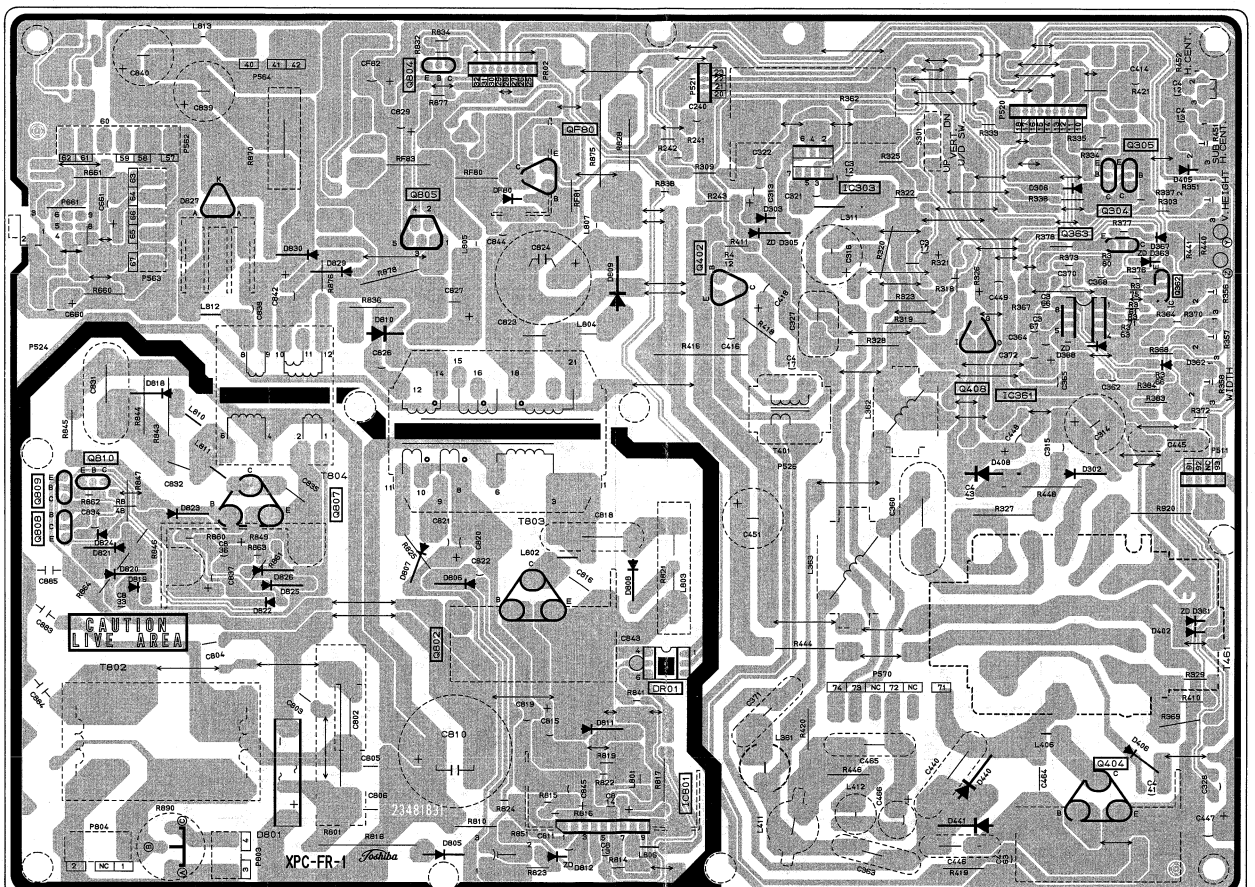
MAIN BOARD PW6797

BOTTOM (FOIL) SIDE



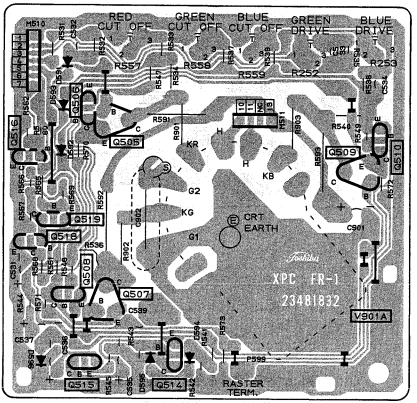
POWER/DEF BOARD PW6798

BOTTOM (FOIL) SIDE



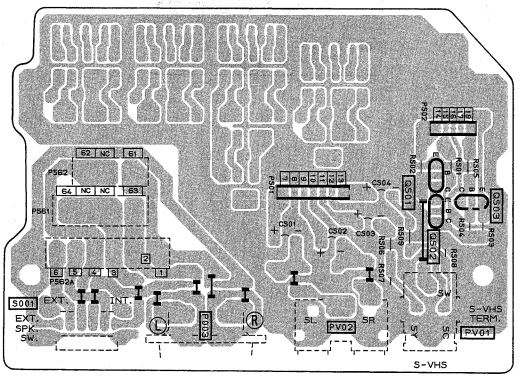
CRT DRIVE BOARD PW6799-1

BOTTOM (FOIL) SIDE



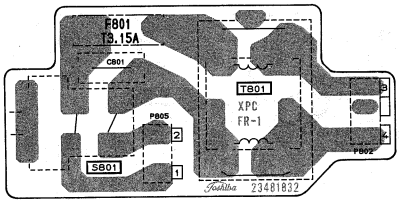
BACK TERMINAL BOARD PW6799-2

BOTTOM (FOIL) SIDE



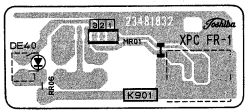
MAINS SW. BOARD PW6799-3

BOTTOM (FOIL) SIDE



IR AMP BOARD PW6799-4

BOTTOM (FOIL) SIDE



1

285S8F

SCHEMATIC DIAGRAM (1/2)

IMPORTANT SAFETY NOTICE

Component marked with the International Hazard Symbol must, if changed, be replaced by an approved type and must be mounted as the original. This will ensure that the safety standards adhered to during manufacture will be maintained following any servicing procedure.

OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltage readings were obtained using a high impedance digital voltmeter.
2. (—) or ground lead of instruments should be connected to the ground marked (⊥) in the shematic on checking Non-isolated circuit surrounded by mark but should be connected to the points marked (⏚) on checking isolated circuit.
3. The voltage readings may vary as much as ±20%.
4. Check that the Tuning, A.F.C., Brightness, Contrast and Colour controls are adjusted for the best picture, making sure that the Contrast, Brightness and Colour controls are set near to their mid-positions.
5. The waveforms were taken using a standard colour bar signal and were observed using a wide band oscilloscope via a low capacity probe.

NOTES:

1. This circui

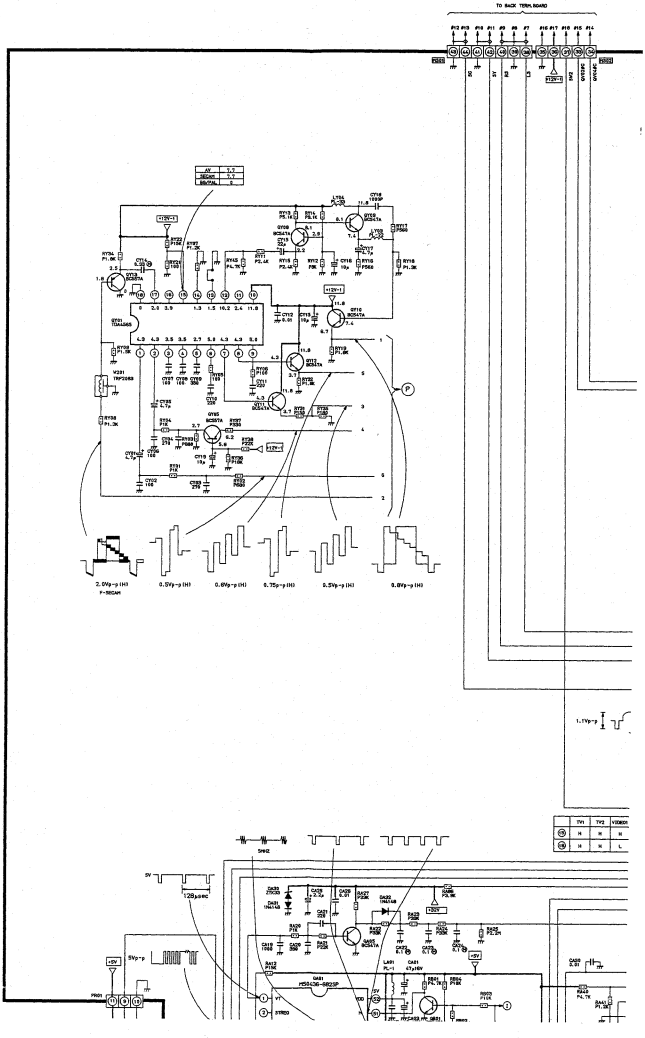
EXPRESSION

VALUE OF RESI

1. Resistance is s
2. Unless otherw
   μF and the val
3. Unless otherw
   μH, and the v

GROUNDING SY

1. ⊥: Non isolate



NOTES:

1. This circuit diagram is subject to change without notice.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000.
2. Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in H.

GROUNDING SYMBOL

1. ⊥: Non isolated ground, ⏚ : Isolated ground.

RESISTORS

Prefixed to values:

TYPE	MARK
Carbon Comp.	S
Oxide Metal Film	R
Ins. Carbon Film	P
Wire Wound	W
Cement covered W.W.	NO MARK
Fusible Res.	FR

Suffixes to values:

TOLERANCE	MARK
±1%	(F)
±2%	(G)

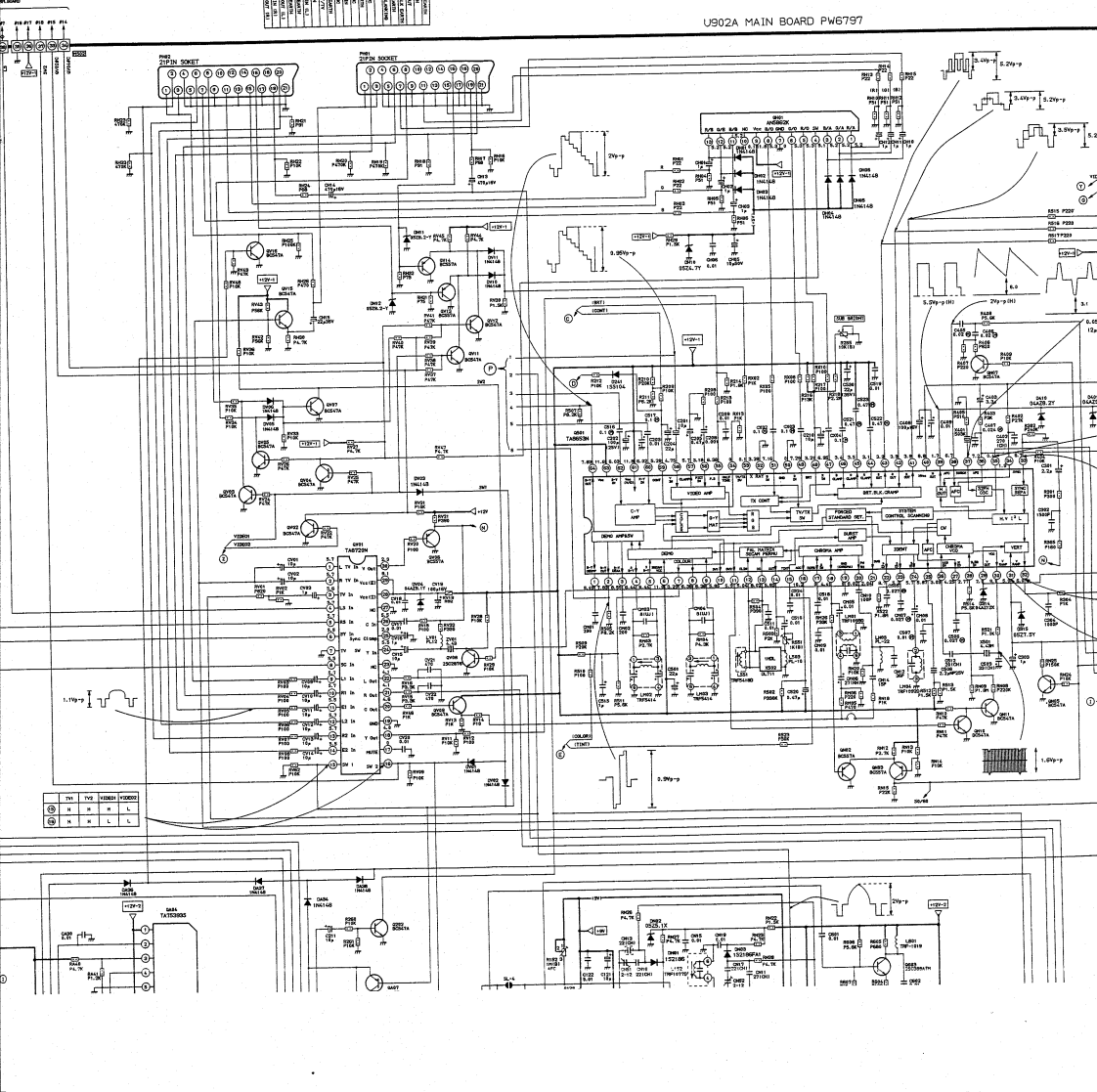
Suffixes to VR values:

LAW	MARK
Linear	(B)
'C' Curve Characteristic	(C)

Rating Markings:

WATTAGE	MA
1/6W	
1/4W	
1/2W	
1W	
2W	

U902A MAIN BOARD PW6797



rnational Hazard Symbol must, if changed, be replaced by an
ted as the original. This will ensure that the safety standards
ill be maintained following any servicing procedure.

ES AND WAVEFORMS

ed using a high impedance digital voltmeter.
iments should be connected to the ground marked (⊥) in the
olated circuit surrounded by mark but should be connected
on checking isolated circuit.
y as much as ±20%.
C., Brightness, Contrast and Colour controls are adjusted for
re that the Contrast, Brightness and Colour controls are set

using a standard colour bar signal and were observed using a
low capacity probe.

NOTES:

1. This circuit diagram is subject to change without notice.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000.
2. Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in H.

GROUNDING SYMBOL

1. ⊥: Non isolated ground, ⏚ : Isolated ground.

RESISTORS

Prefixed to values:

TYPE	MARK
Carbon Comp.	S
Oxide Metal Film	R
Ins. Carbon Film	P
Wire Wound	W
Cement covered W.W.	NO MARK
Fusible Res.	FR

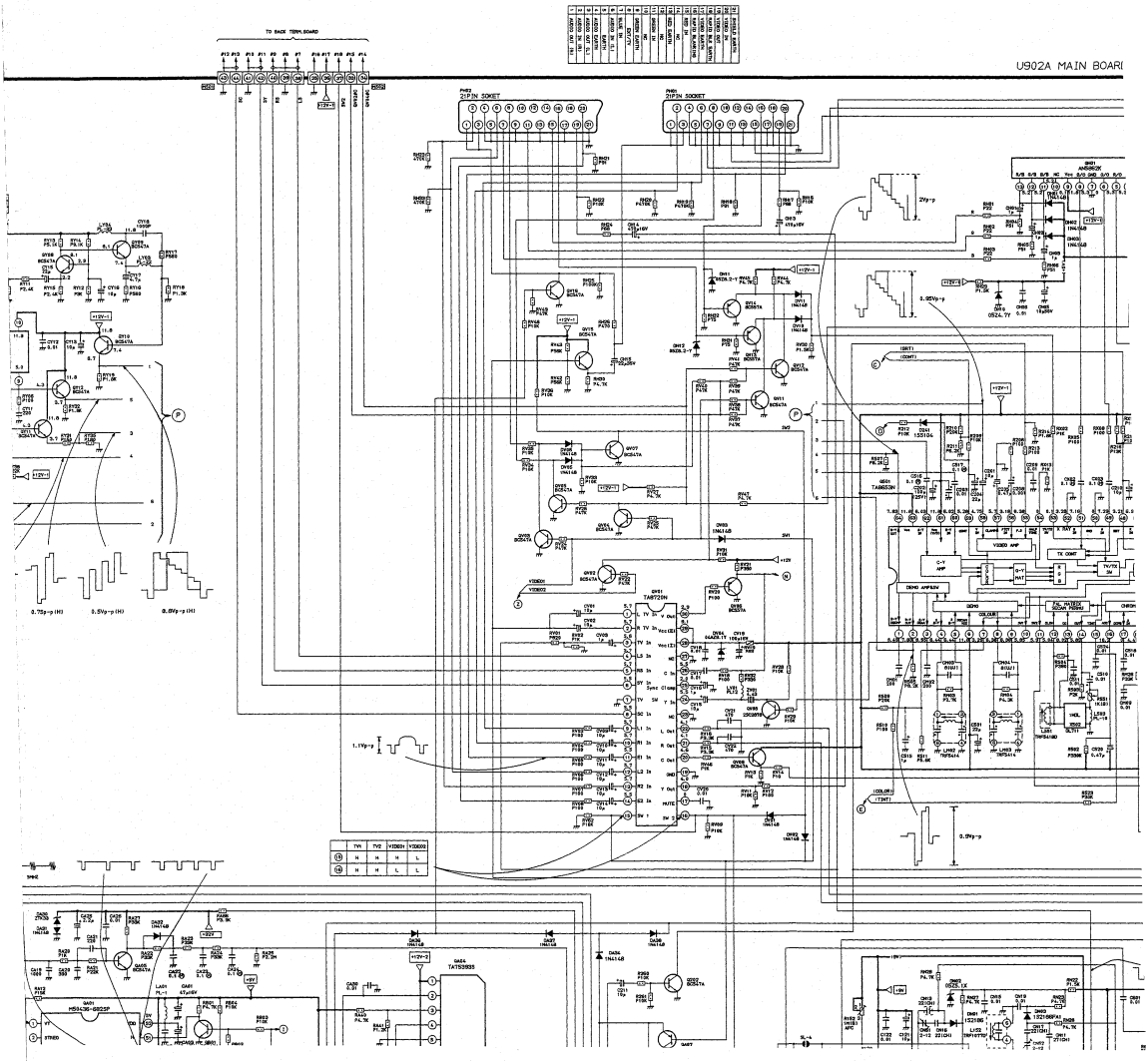
Suffixes

TC

Suffixes

'C' Curv

U902A MAIN BOARD



Suffixes to values:

TOLERANCE	MARK
±1%	(F)
±2%	(G)

Suffixes to VR values:

LAW	MARK
Linear	(B)
'C' Curve Characteristic	(C)

Rating Markings:

WATTAGE	MARK
1/6W	
1/4W	
1/2W	
1W	1
2W	2

WATTAGE	MARK
3W	3
5W	5
10W	10
15W	15
20W	20
25W	25

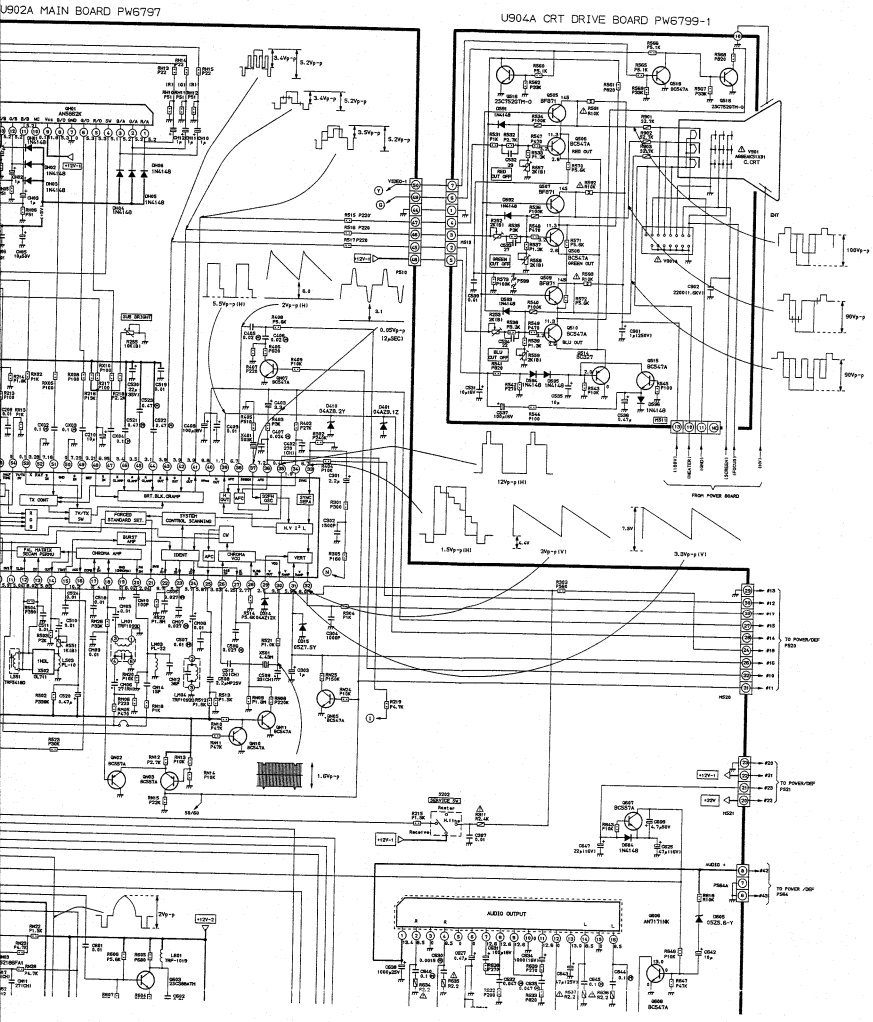
CAPACITORS

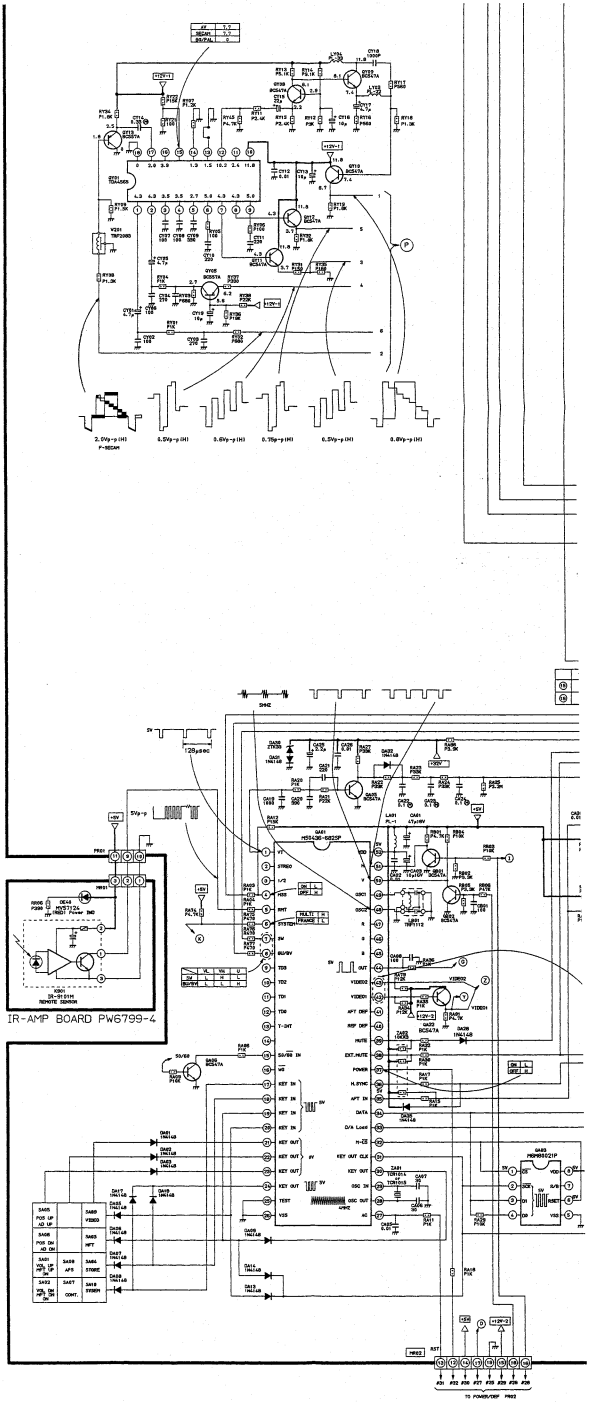
Rating Markings:

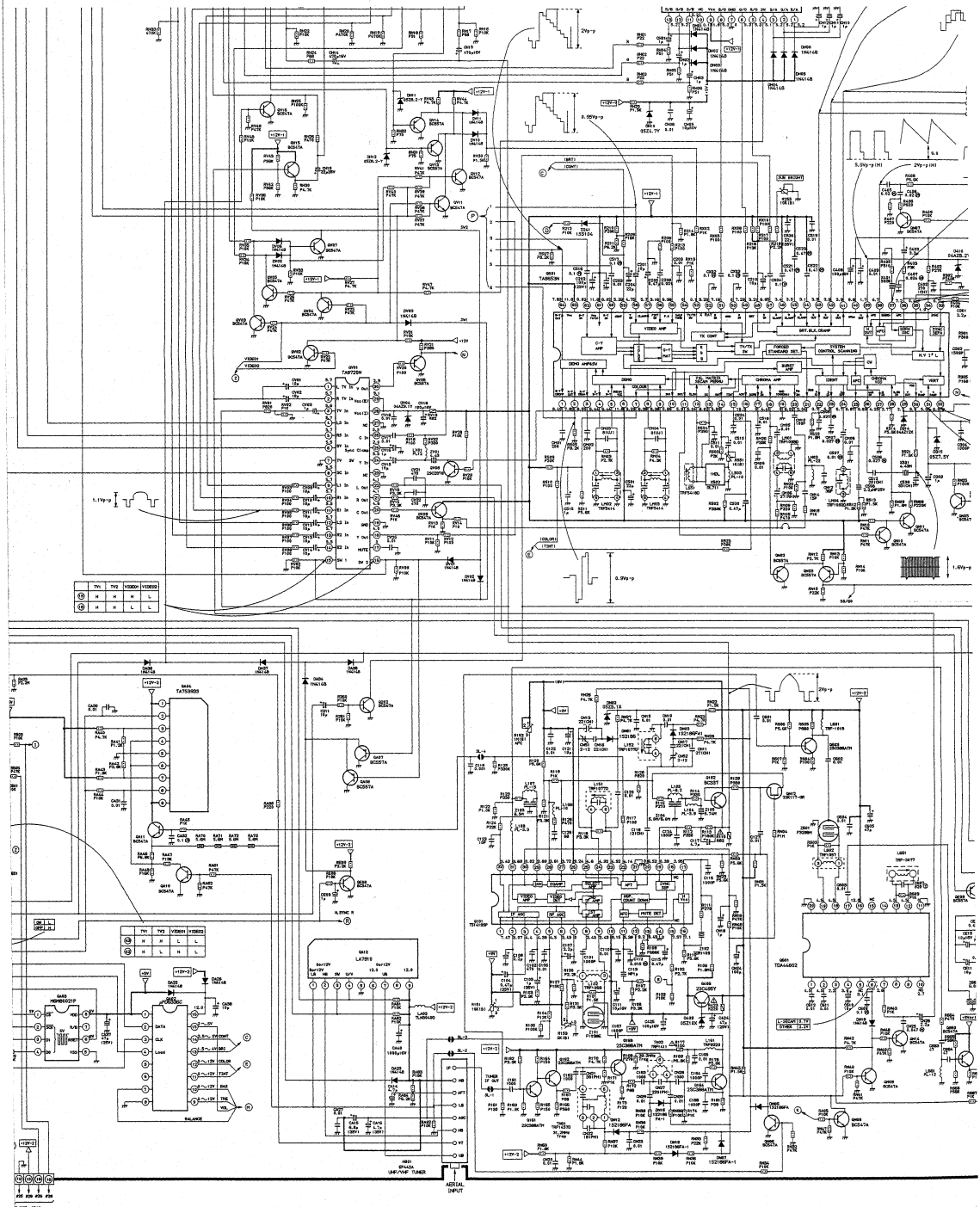
Type	Mark
Ceramic Disc 50V Only	
Electrolytic	
Electrolytic Non-Polar	
Vsriable Capacitor	
Other	

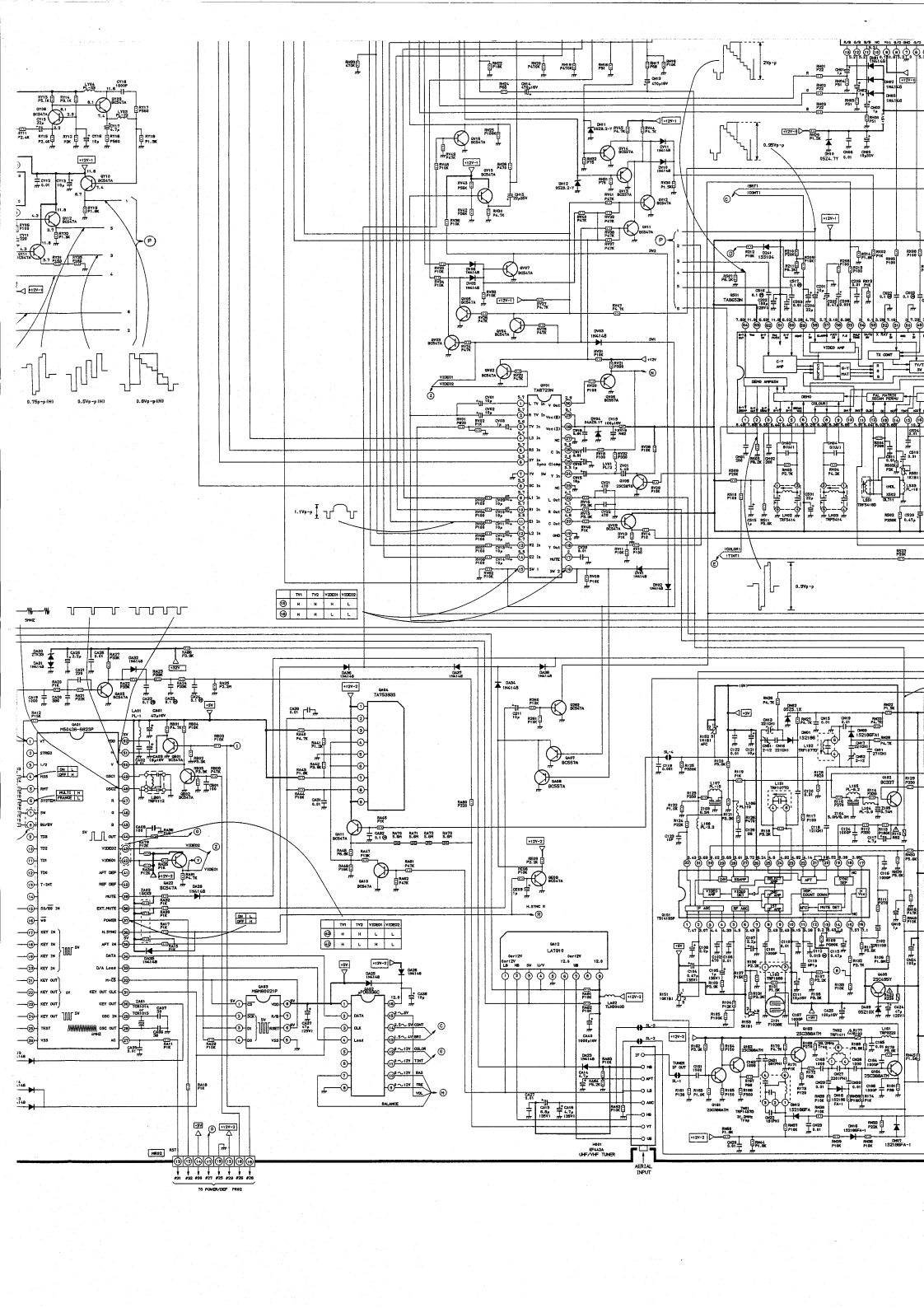
U902A MAIN BOARD PW6797

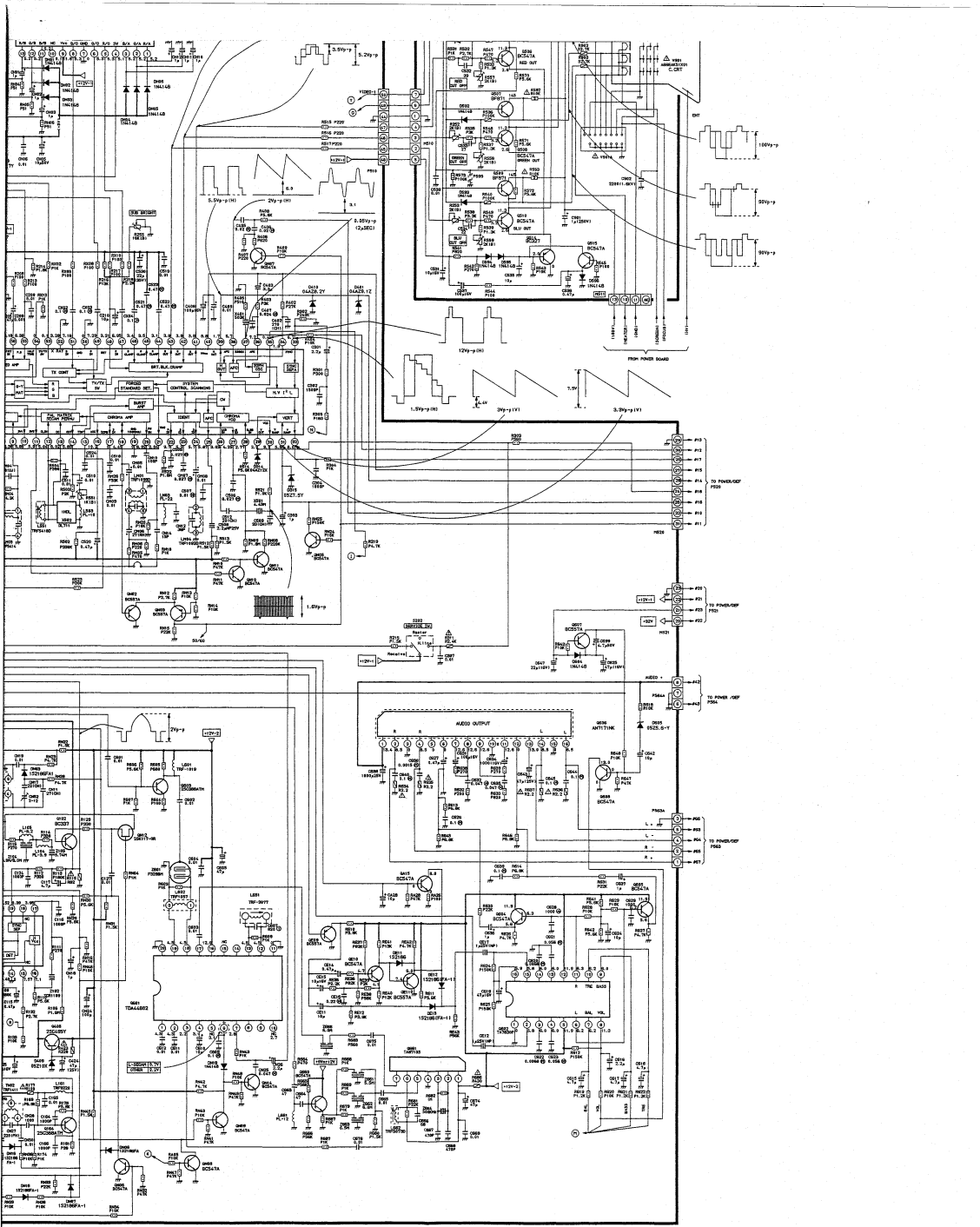
U904A CRT DRIVE BOARD PW6799-1




IR-AMP BOARD PW6799-4






FROM POWER BOARD
TO POWER/DEF P320
TO POWER/DEF P321
TO POWER /DEF P304
TO POWER/DEF P303
AUDIO OUTPUT
R TRE BASS
L BAL VOL

285S8F

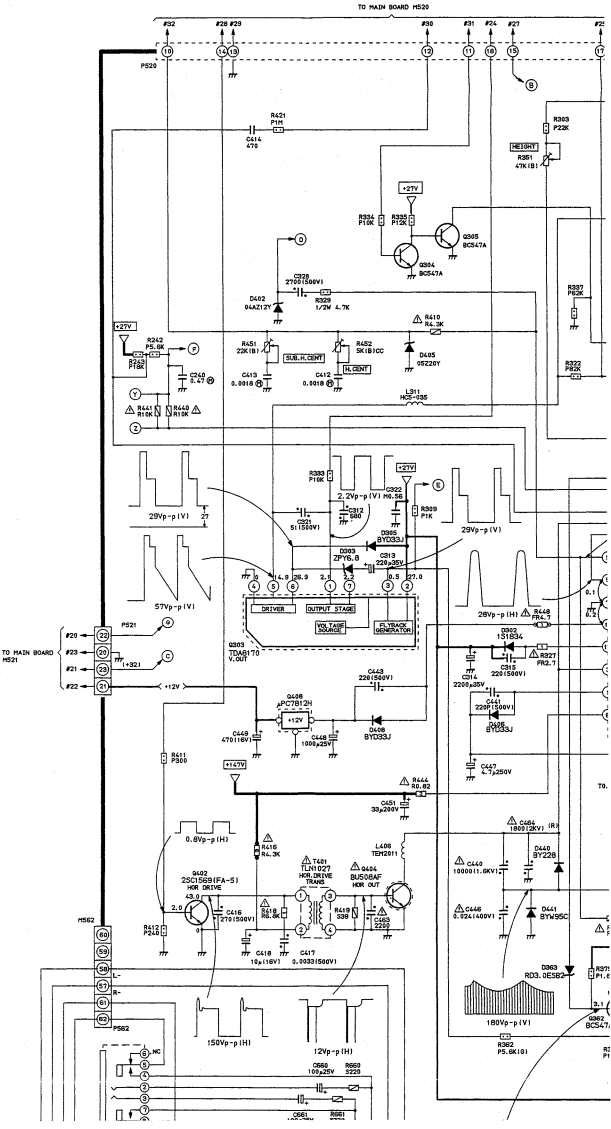
SCHEMATIC DIAGRAM (2/2)

IMPORTANT SAFETY NOTICE

Component marked with the International Hazard Symbol must, if changed, be replaced by an approved type and must be mounted as the original. This will ensure that the safety standards adhered to during manufacture will be maintained following any servicing procedure.

OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltage readings were obtained using a high impedance digital voltmeter.
2. (—) or ground lead of instruments should be connected to the ground marked (⊥) in the shematic on checking Non-isolated circuit surrounded by mark but should be connected to the points marked (⏚) on checking isolated circuit.
3. The voltage readings may vary as much as ±20%.
4. Check that the Tuning, A.F.C., Brightness, Contrast and Colour controls are adjusted for the best picture, making sure that the Contrast,Brightness and Colour controls are set near to their mid-positions.
5. The waveforms were taken using a standard colour bar signal and were observed using a wide band oscilloscope via a low capacity probe.



NOTES:

1. This circuit diagram is subject to change without notice.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000.
2. Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in H.

GROUNDING SYMBOL

1. ⊥ Non isolated ground, ⏚ : Isolated ground.

RESISTORS

Prefixed to values:

TYPE	MARK
Carbon Comp.	S
Oxide Metal Film	R
Ins. Carbon Film	P
Wire Wound	W
Cement covered W.W.	NO MARK
Fusible Res.	FR

Suffixes to values:

TOLERANCE	MARK
±1%	(F)
±2%	(G)

Suffixes to VR values:

LAW	MARK
Linear	(B)
'C' Curve Characteristic	(C)

Rating Marl

WATTAGI
1/6W
1/4W
1/2W
1W
2W

U903 POWER/DEF BOARD PW6798

U904 MAIN SW.

E

ternational Hazard Symbol must, if changed, be replaced by an
nted as the original. This will ensure that the safety standards
will be maintained following any servicing procedure.

SES AND WAVEFORMS

ined using a high impedance digital voltmeter.
ruments should be connected to the ground marked (⊥) in the
isolated circuit surrounded by mark but should be connected
) on checking isolated circuit.
ary as much as ±20%.
F.C., Brightness, Contrast and Colour controls are adjusted for
sure that the Contrast,Brightness and Colour controls are set
.
n using a standard colour bar signal and were observed using a
a low capacity probe.

NOTES:

1. This circuit diagram is subject to change without notice.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000.
2. Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in H.

GROUNDING SYMBOL

1. ⊥ Non isolated ground, ⏚ : Isolated ground.

RESISTORS

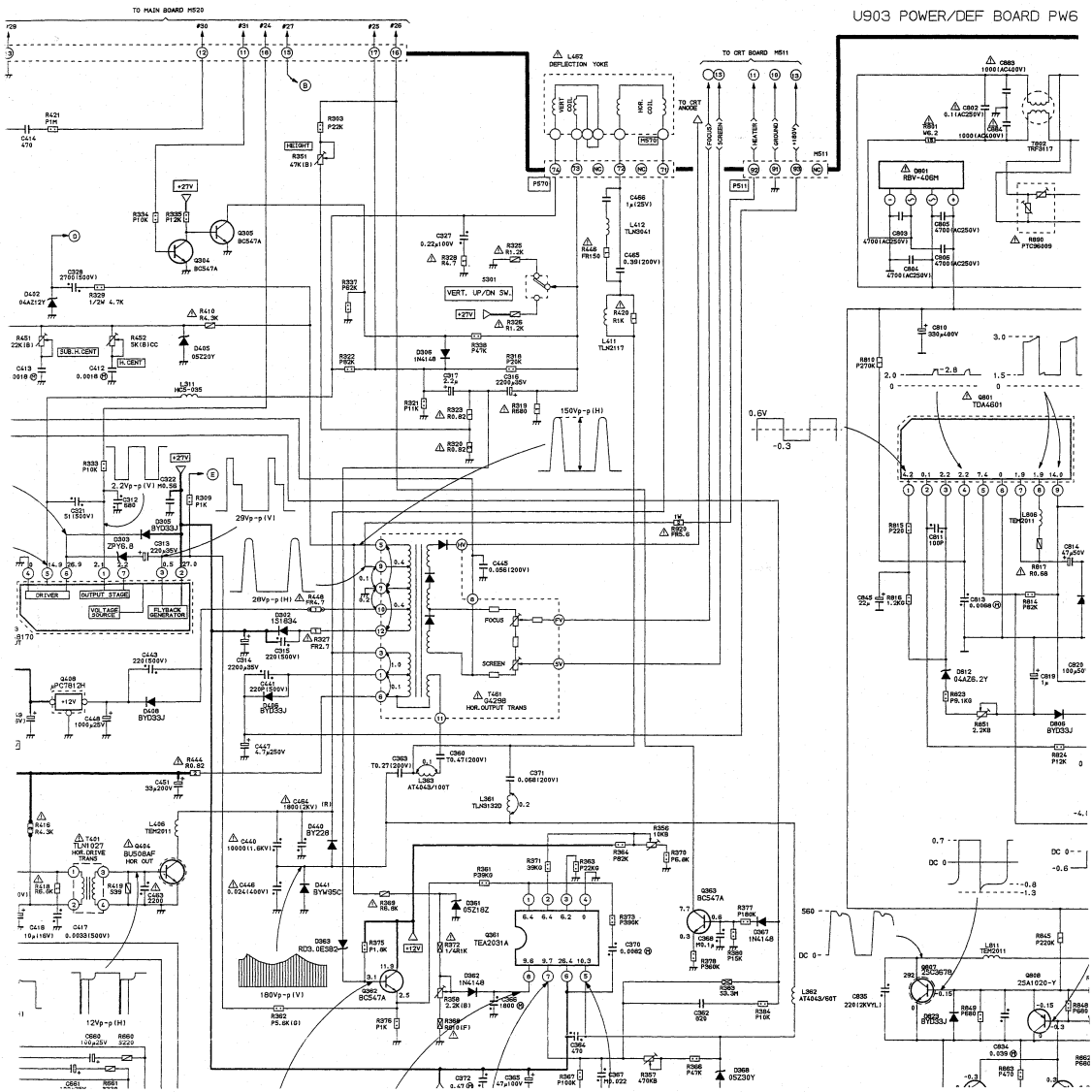
Prefixed to values:

TYPE	MARK
Carbon Comp.	S
Oxide Metal Film	R
Ins. Carbon Film	P
Wire Wound	W
Cement covered W.W.	NO MARK
Fusible Res.	FR

S

S

U903 POWER/DEF BOARD PW6



Suffixes to values:

TOLERANCE	MARK
±1%	(F)
±2%	(G)

Suffixes to VR values:

LAW	MARK
Linear	(B)
'C' Curve Characteristic	(C)

Rating Markings:

WATTAGE	MARK
1/6W	
1/4W	
1/2W	
1W	1
2W	2

WATTAGE	MARK
3W	3
5W	5
10W	10
15W	15
20W	20
25W	25

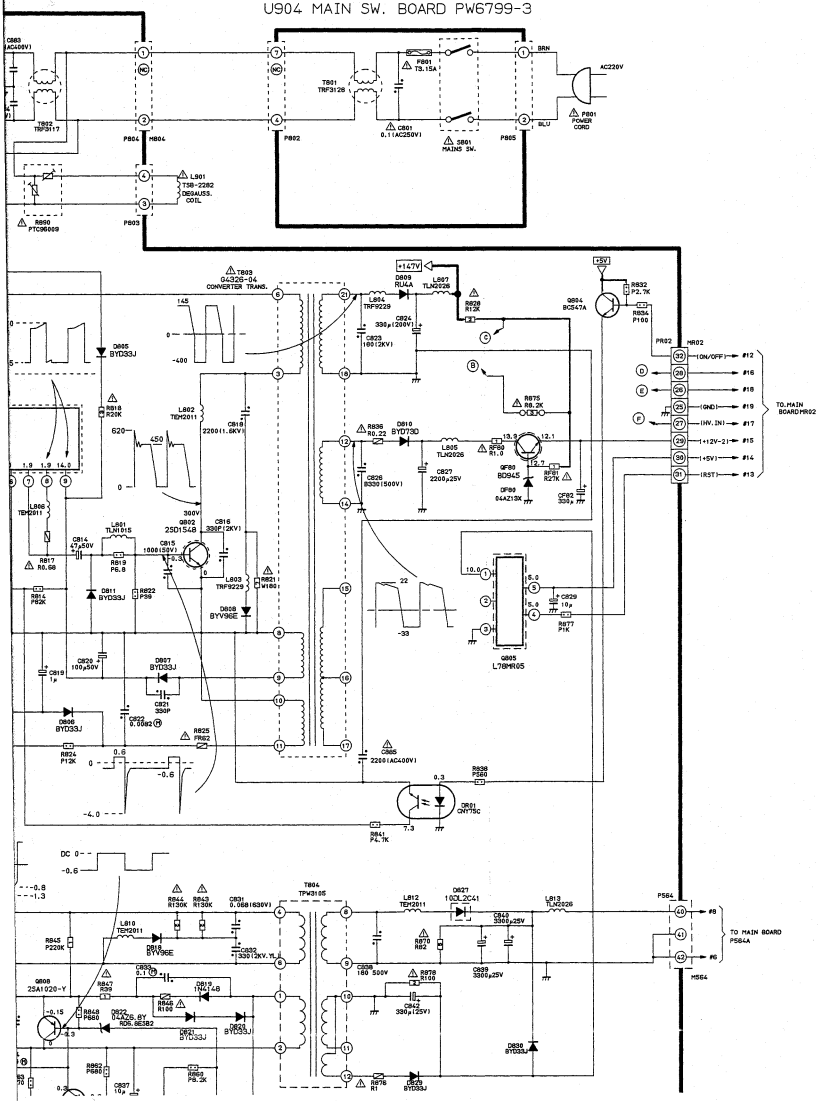
CAPACITORS

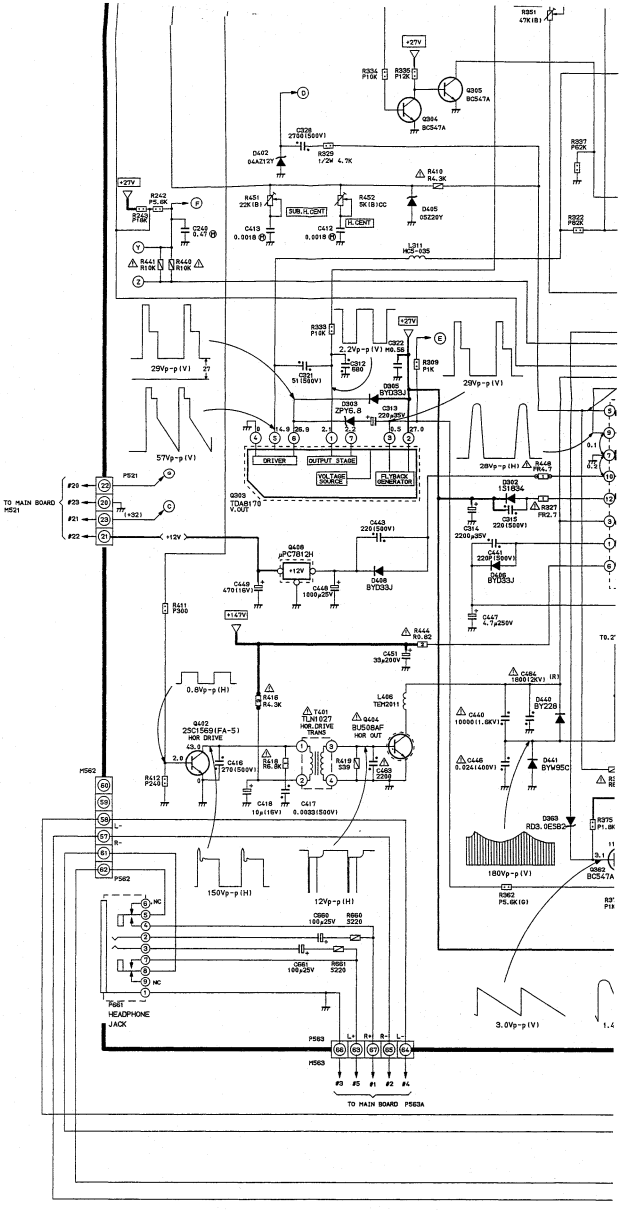
Rating Markings:

Type	Mark
Ceramic Disc 50V Only	
Electrolytic	
Electrolytic Non-Polar	
Variable Capacitor	
Other	

BOARD PW6798

U904 MAIN SW. BOARD PW6799-3



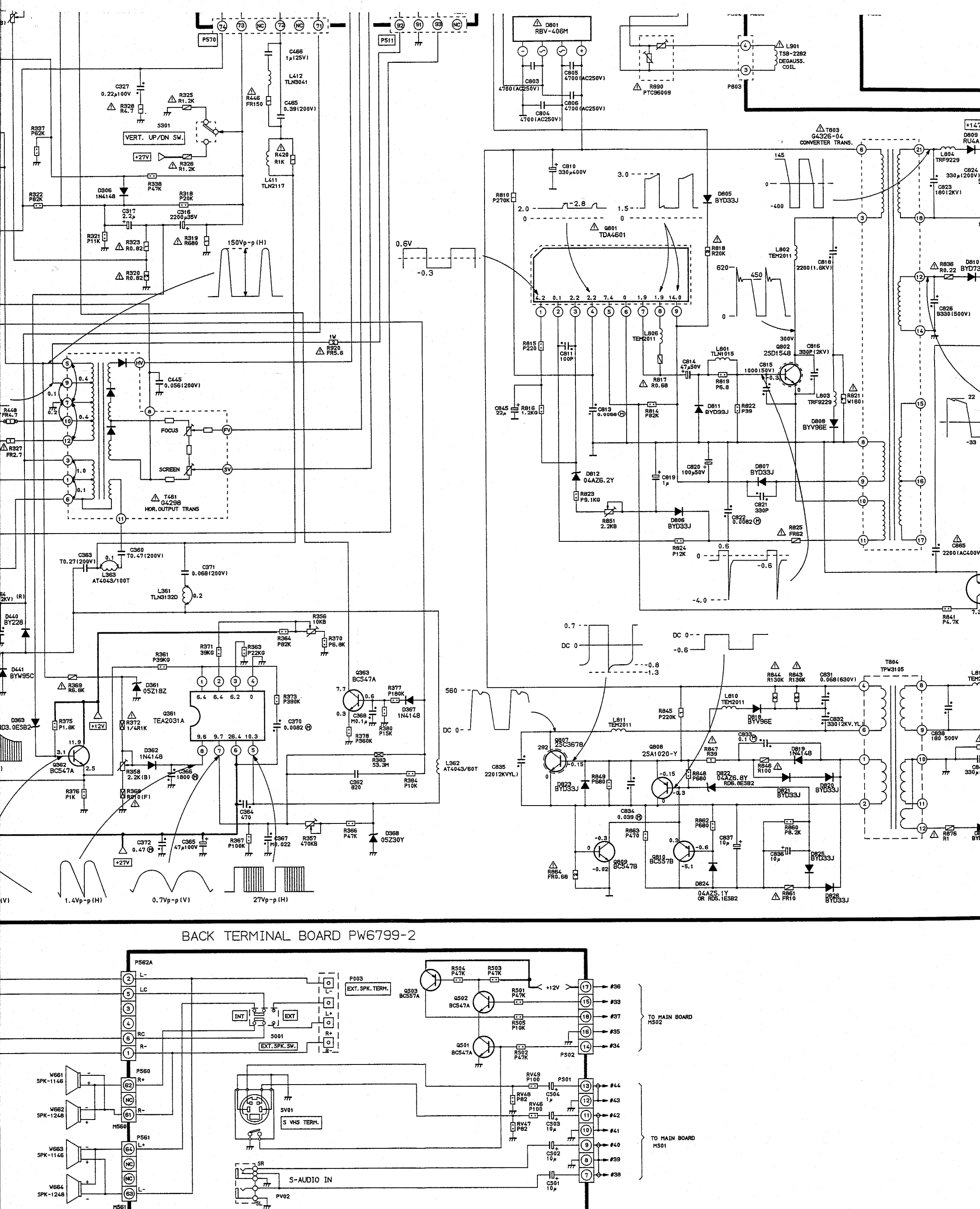


W661 SPK-1146

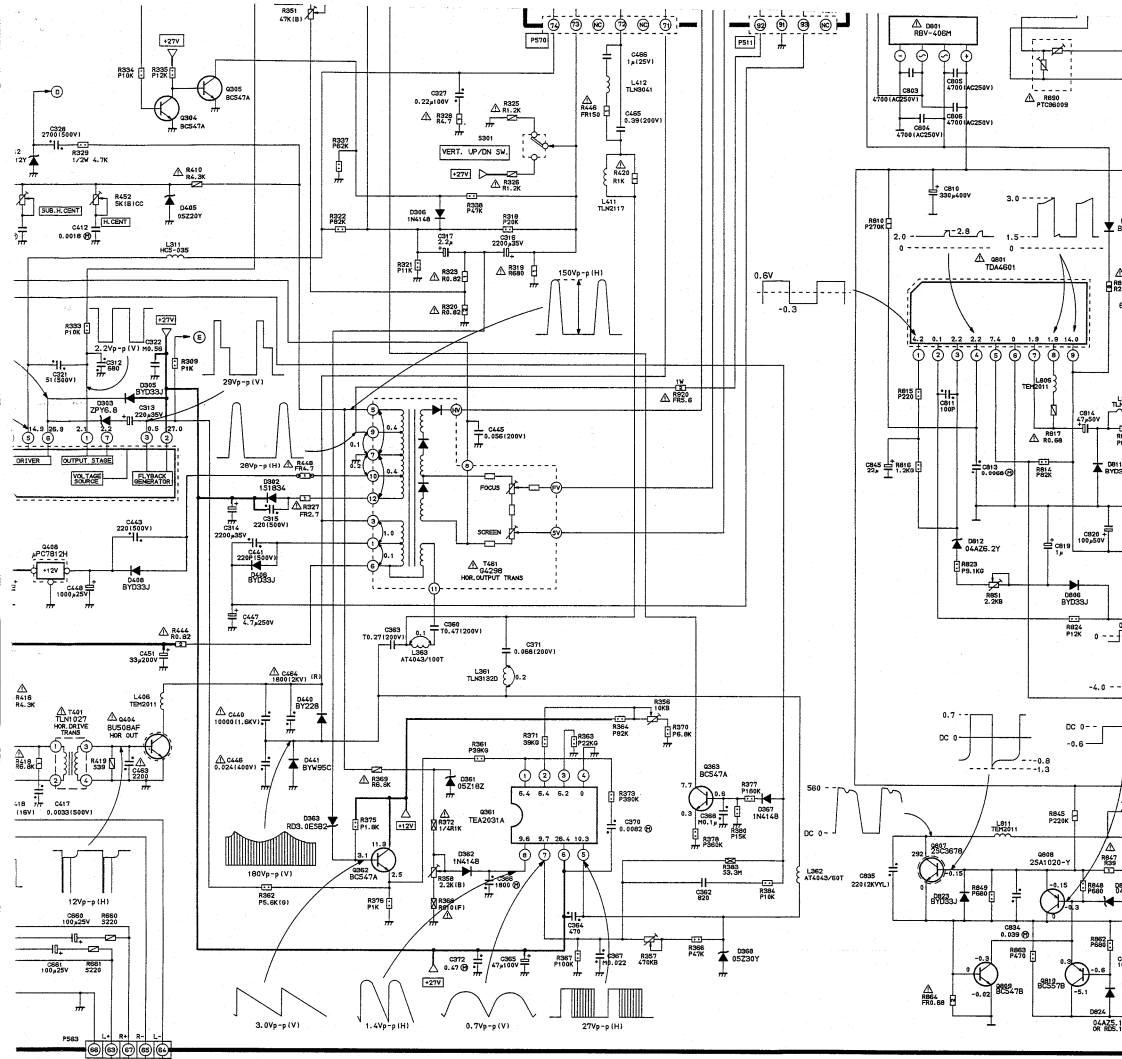
W662 SPK-1248

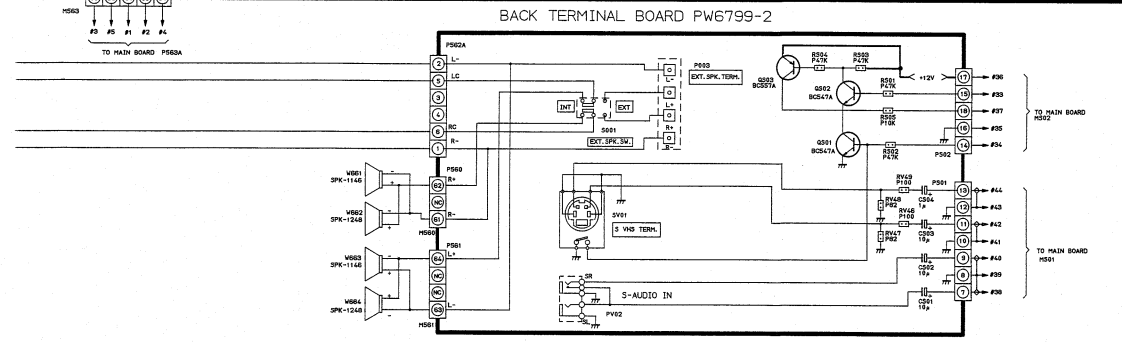
W663 SPK-1146

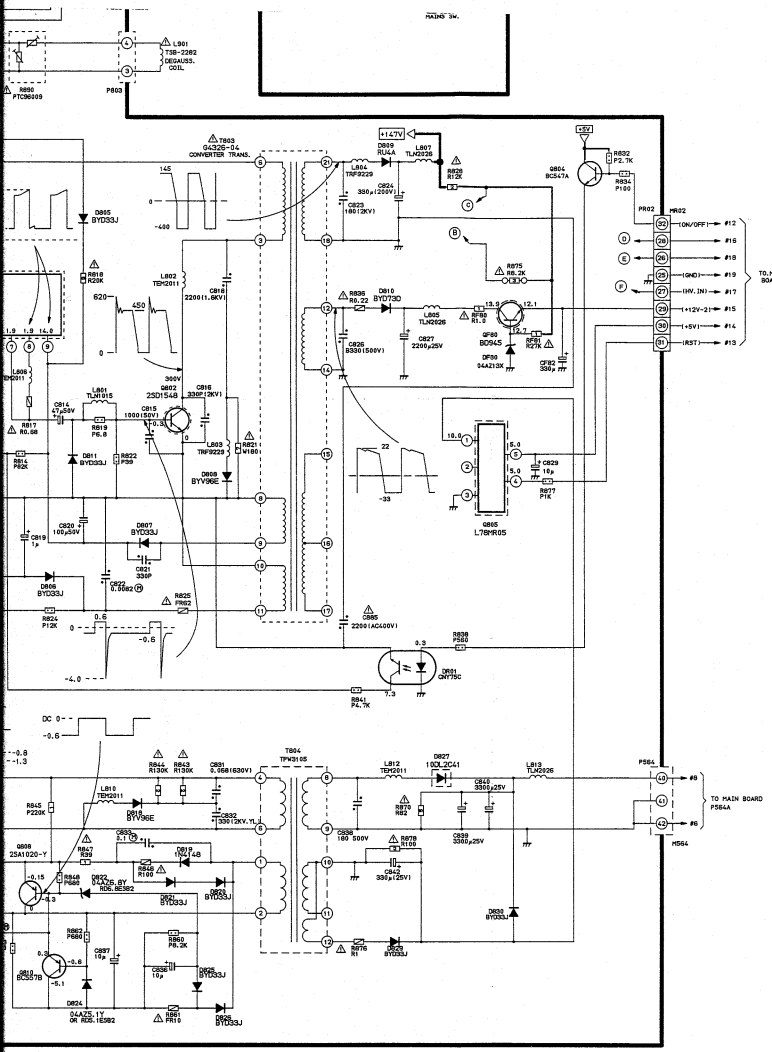
W664 SPK-1248



P570
P511
C466 1μ(25V)
L412 TLN3041
C465 0.39(200V)
R446 FR150
R420 R1K
L411 TLN2117
C327 0.22μ100V
R328 R4.7
R325 R1.2K
S301
VERT. UP/DN SW.
+27V
R326 R1.2K
R337 P62K
R338 P47K
D306 1N4148
R322 P82K
R318 P20K
C317 2.2μ
C316 2200μ35V
R321 P11K
R323 R0.82
R319 R680
R320 R0.82
150Vp-p(H)
R920 FR5.6
C445 0.056(200V)
R448 FR4.7
R327 FR2.7
FOCUS
SCREEN
T461 G4298 HOR.OUTPUT TRANS
C363 T0.27(200V)
C360 T0.47(200V)
L363 AT4043/100T
C371 0.068(200V)
L361 TLN3132D
D440 BY228
D441 BYW95C
R369 R6.8K
D361 05Z18Z
D363 RD3.0ESB2
R375 P1.8K
+12V
Q362 BC547A
R376 P1K
R372 1/4R1K
R358 2.2K(B)
R369 R910(F)
D362 1N4148
C366 1800
R361 P39KG
R371 39KG
R363 P22KG
R364 P82K
R356 10KB
R370 P6.8K
Q361 TEA2031A
R373 P390K
C370 0.0082
Q363 BC547A
R377 P180K
D367 1N4148
C368 M0.1μ
R380 P15K
R378 P360K
R383 S3.3M
C362 820
R384 P10K
L362 AT4043/60T
C364 470
C372 0.47
C365 47μ100V
R367 P100K
C367 M0.022
R357 470KB
R366 P47K
D368 05Z30Y
1.4Vp-p(H)
0.7Vp-p(V)
27Vp-p(H)
D801 RBV-406M
C803 4700(AC250V)
C805 4700(AC250V)
C806 4700(AC250V)
C804 4700(AC250V)
R890 PTC96009
P803
L901 TSB-2282 DEGAUSS. COIL
C810 330μ400V
R810 P270K
D805 BYD33J
Q801 TDA4601
R818 R20K
T803 G4326-04 CONVERTER TRANS.
L804 TRF9229
D809 RU4A
C824 330μ(200V)
C823 180(2KV)
L802 TEM2011
C818 2200(1.6KV)
R836 R0.22
D810 BYD73
C826 B330(500V)
R815 P220
C811 100P
L806 TEM2011
R817 R0.68
C814 47μ50V
L801 TLN1015
R819 P6.8
C815 1000(50V)
Q802 2SD1548
C816 330P(2KV)
L803 TRF9229
R821 W180
D808 BYV96E
C845 22μ
R816 1.2KG
C813 0.0068
R814 P82K
D811 BYD33J
R822 P39
D812 04AZ6.2Y
R823 P9.1KG
C819 1μ
C820 100μ50V
D807 BYD33J
C821 330P
R851 2.2KB
D806 BYD33J
C822 0.0082
R825 FR62
R824 P12K
C885 2200(AC400V)
R841 P4.7K
T804 TPW3105
R844 R130K
R843 R130K
C831 0.068(630V)
L810 TEM2011
D818 BYV96E
C832 330(2KV,YL)
R845 P220K
L811 TEM2011
Q807 2SC3678
C835 220(2KVYL)
Q808 2SA1020-Y
R847 R39
C833 0.1
D819 1N4148
R846 R100
D823 BYD33J
R849 P680
R848 P680
D822 04AZ6.8Y RD6.8ESB2
D821 BYD33J
D820 BYD33J
C838 180 500V
R876 R1
C834 0.039
R862 P680
R863 P470
R860 P8.2K
C837 10μ
C836 10μ
D825 BYD33J
Q809 BC547B
Q810 BC557B
R864 FR0.68
D824 04AZ5.1Y OR RD5.1ESB2
R861 FR10
D826 BYD33J
BACK TERMINAL BOARD PW6799-2
P562A
L-
LC
RC
R-
P003
EXT.SPK.TERM.
INT
EXT
S001
EXT.SPK.SW.
L+
R+
QS03 BC557A
QS02 BC547A
QS01 BC547A
RS04 P47K
RS03 P47K
RS01 P47K
RS05 P10K
RS02 P47K
+12V
PS02
#36
#33
#37
#35
#34
TO MAIN BOARD MS02
W661 SPK-1146
W662 SPK-1248
W663 SPK-1146
W664 SPK-1248
P560
M560
P561
M561
SV01
S VHS TERM.
SR
S-AUDIO IN
SL
PV02
RV49 P100
PS01
RV48 P82
CS04 1μ
RV46 P100
RV47 P82
CS03 10μ
CS02 10μ
CS01 10μ
#44
#43
#42
#41
#40
#39
#38
TO MAIN BOARD MS01




BACK TERMINAL BOARD PW6799-2
P562A
P563
EXT. SPK. TERM.
INT
EXT
EXT. SPK. SW.
S001
P560
P561
W561 SPK-1146
W562 SPK-1248
W563 SPK-1146
W564 SPK-1248
M561
M562
M563
M564
5V01
5 VHS TERM.
S-AUDIO IN
PV02
TO MAIN BOARD M302
TO MAIN BOARD M301

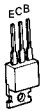

MAINS SW.
L901
T38-2262
DEGAUSS.
COIL
R890
PTC90809
P803
T803
GA32E-04
CONVERTER TRANS.
+147V
D839
RU4A
L807
TLN2928
R828
R126
L804
TNF9229
C824
330μ(200V)
C823
180(2KV)
Q804
BC547A
+5V
R832
P2.7K
R834
P102
PR02
TO MAIN BOARD PR02
(ON/OFF) #12
#16
#18
(GND) #19
(HV.IN) #17
(+12V-2) #15
(+5V) #14
(RST) #13
D805
BYD33J
R818
R20K
L803
TEH2011
C816
220(11.6KV)
620
450
0
-490
145
0
-33
22
C838
R839
R0.22
D810
BYD73D
L805
TLN2626
R835
R1.0
Q805
BC945
R831
R27K
DF80
04A213X
C827
2200μ25V
C826
B3301500V)
C832
330μ
R975
R6.2K
13.0
12.1
15.7
1.9 1.9 14.8
L808
TEH2011
C814
47μ50V
R817
R0.68
L801
TLN1015
R819
P6.8
Q802
2SD1548
C815
1000(50V)
C818
330P(2KV)
R821
M180Ω
R814
P62K
D811
BYD33J
R822
P39
L803
TNF9229
D808
BTV96E
C819
1μ
C820
100μ50V
D807
BYD33J
C821
330P
C822
0.0082(P)
D806
BYD33J
R825
FR02
R824
P12K
0.6
-0.6
-4.0
C805
2200(AC400V)
R838
P680
Q851
GN79C
9.3
7.3
R841
P4.7K
10.0
5.0
5.0
C829
10μ
R827
P1K
Q805
L78MR05
DC 0
-0.6
-0.8
-1.3
R844
R130K
R843
R130K
C831
0.068(630V)
T804
TPW3105
L812
TEH2011
D827
1QS1_2C41
L813
TLN2626
C840
3300μ25V
C839
3300μ25V
C838
180 500V
R878
R82
R878
1100
C842
330μ(25V)
D830
BYD33J
D829
BYD33J
R876
R1
P564
#8
#6
TO MAIN BOARD P564A
M564
L810
TEH2011
D810
BTV96E
C832
3301(2KV.YL)
R845
P220K
Q808
2SA1020-Y
C833
0.1
R847
R39
D819
1SS244B
R846
R100
D822
01AZ6.8Y
OR RDS.1ES82
D821
BYD33J
D820
BYD33J
R848
R680
-0.15
-0.3
0
R862
P680
0.3
-0.6
C837
10μ
R860
R6.2K
C836
10μ
D835
BYD33J
Q810
BC557B
-5.1
D824
04AZ5.1Y
OR RDS.1ES82
R861
FR10
D826
BYD33J
TO MAIN BOARD M502
TO MAIN BOARD M501

TERMINAL VIEW OF TRANSISTOR, etc.

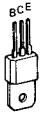
① BC327
BC337
BC547A
BC547B
BC547C
BC557A
BC557B
BF324

② 2SK30ATM

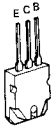
③ BD202



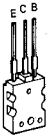
④ BF871
2SD553



⑤ 2SC3678
2SC3182N



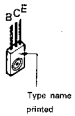
⑥ 2SD1432



⑦ 2SC2482
2SA1321
2SC2229
2SA1020

⑧ 2SC388ATM
2SA1015

⑨ 2SC495



MEMO